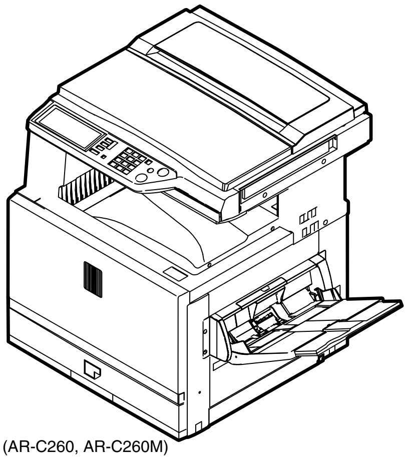
SHARP SERVICE MANUAL

CODE: 00ZARC260MA2E



(AR-C260, AR-C260M)

DIGITAL FULL COLOR COPIER/PRINTER/ MULTIFUNCTIONAL SYSTEM

AR-C260
MODEL AR-C260M

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Parts marked with "⚠" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

SHARP CORPORATION

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The contents are subject to change without notice.

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[1] OUTLINE

1. Product features

No.	Feature	Content	Employed technology
1	Compact, lightweight, A3 tandem engine	AR-C260: 670 x 676 x 709 mm (26.4 x 26.6 x 27.9 inch), about 67kg (about 148 lbs.) (Include OC) AR-C260M: 670 x 676 x 709mm (26.4 x 26.6 x 27.9 inch), about 69kg (about 152 lbs.) (Include OC)	Mono-component wax-free toner, LED printhead
	High speed output	Color: 26PPM B/W: 33PPM (A4) / 32PPM (LT)	
2	High-speed, first color copy	Color: 8.0sec (A4/LT, without pre-scan, side paper exit) B/W: 7.0sec	LED printhead
3	Automatic recognition of document kind	The document kind is automatically recognized from the document components by pre-scanning. (Photo, Print, Text, Photo/Text, and Print/Text are supported.)	Sharp's unique technology of automatic recognition of document kind, image process technology
4	Manual paper feed capacity	300 sheets/64g (17 lbs.)	Development of a large capacity manual feed tray
	Heavy paper support	64 to 300g/m^2 (17 to 80 lbs.)	Oil-less fusing unit, paper feed/paper transport technology
	Heavy paper duplex feed support	64 to 200g/m^2 (17 to 53 lbs.)	
5	Improved user maintenance	Paper jam process: 2 positions of open/close (sides)	Paper jam control technology
		Toner supply: Cartridge replacement	Mono-component wax-free toner
6	Improved service maintenance	Developing section: Mono-component development eliminates the need for developer replacement.	Mono-component wax-free toner
		Drum section: Cartridge replacement	Designed for easy maintenance
		Fusing section: Simplified structure by wax-free. The unit can be disassembled simply by releasing the lock with the knob.	Mono-component wax-free toner. Designed for easy maintenance
		Transfer section: One-touch extraction. Designed for easy belt replacement.	Designed for easy maintenance
		Color resist automatic adjustment: Visual judgment by paper exit is automatically performed.	Process control technology, which allows user adjustment.

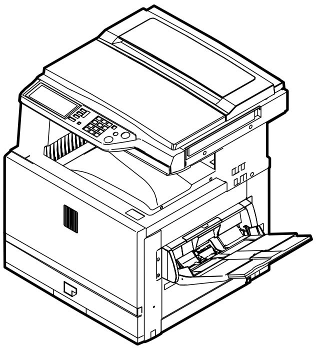
2. Newly employed technology

	Item	Content	Remark
1	LED printhead employed	• Employment of the 4bit LED provides 16-gradation expressions for each of YMCK. • Free from mechanical noises which are produced from the unit such as an LSU. Printing is started immediately without waiting for stabilization of the polygon motor speed. • Lower power consumption than an LSU	Resolution: 600dpi (Total dots: 7,424 dots)
2	Oil-less fusing system employed	• Development of a new wax-free toner • The wax-free fusing system provides a simplified structure and improved paper feed capability. • Notes and remarks can be put on a copy image similar to normal page.	

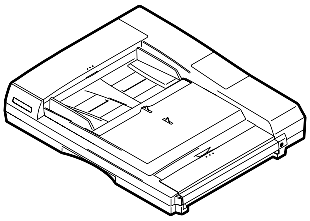
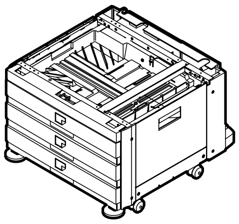
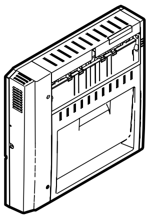
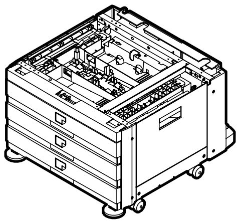
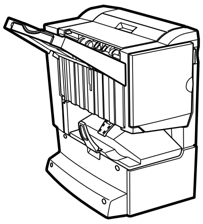
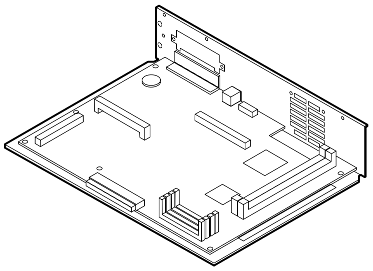
[2] CONFIGURATION

1. Product Line and options

A. Line of machines

Model name	Composition
AR-C260/260M	Copier model/Printer model
 AR-C260/260M	

B. Line of options

		
AR-RF3/Reversing automatic document feeder	AR-D18/Paper feed module (3-stage paper feed desk) AR-D17/Paper feed module (1-stage paper feed desk) (Outside Japan only)	AR-RB1/Duplex pass + Reverse unit (Requires (AR-D19).)
		
AR-D19/Duplex module + Paper feed module (2-stage) (Requires (AR-RB1).)	AR-F13/Saddle stitch finisher (Requires (AR-RB1).)	AR-P16/Printer controller (for AR-C260)

Line of other options

	Model	Name	Necessary option	Support model
Paper exit system	AR-PN1A	Punch unit (2-hole)	AR-F13/Saddle stitch finisher	
	AR-PN1BA	Punch unit (3-hole) (Outside Japan only)		
	AR-SC2	Staple cartridge		
Printer system	AR-NC5J	Print server card (NIC)	AR-P16/Printer controller	AR-C260
	AR-HD4	HDD		
	AR-NS2	Network scanner expansion kit		
	AR-U11, U15	Sharp desk license kit		
Other	AR-VR4	Original cover (Except Asia only)		
	AR-TE3	Paper exit tray (Except Asia only)		

C. Combination of options

Option name			Necessary option	Installing condition	Remark
Paper feed system	AR-D17	1-stage paper feed desk	—	Cannot use the 3-stage paper feed desk.	
	AR-D18	3-stage paper feed desk	—	Cannot use the 1-stage paper feed desk.	
	AR-D19	2-stage duplex paper feed desk	Reverse bypass module (AR-RB1)	—	
	AR-RB1	Reverse bypass module	Desk (AR-D19 only)	—	
	AR-LC5	Large capacity tray	Desk (Either of AR-D17/D18/D19)	—	Outside Japan only
Paper exit system	AR-F13	Saddle finisher	Desk (AR-D19) and Reverse bypass module (AR-RB1)	Cannot use the sorter.	
	AR-PN1A AR-PN1BA	Punch unit	Saddle finisher (AR-F13)	—	
	AR-S11	Sorter	Desk (AR-D19) and Reverse bypass module (AR-RB1)	Cannot use the saddle finisher.	Added in running change
Electrical system	AR-NC5J	NIC	Printer controller (AR-P16)	—	
	AR-HD4	HDD 3.5 inch (40GB)	Printer controller (AR-P16)	—	
		128MB expansion memory	—	—	Installed to the ICU (built in the machine) or the printer controller. (Use a commercially available product.)
		256MB expansion memory	—	—	
	AR-NS2	Network scanner expansion kit	Printer controller (AR-P16)	The MFP model has the printer controller installed.	

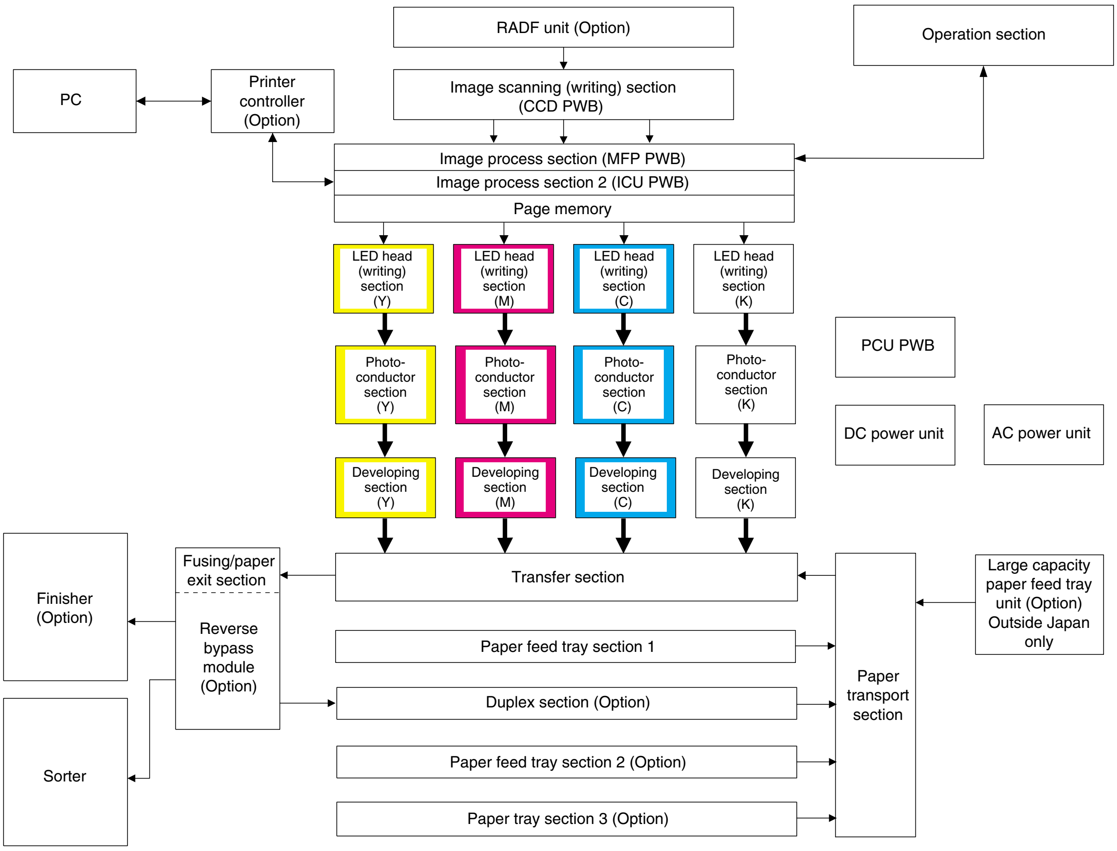
- Expansion memory

Manufacture	Capacity	DIMM model number
Kingston Technology	128MB	KVR133X64C3/128
	256MB	KVR 1 33X64C3-256
Simple Technology	128MB	RB 168S64-128A
	256MB	RB 168S64-256A
Viking Compnehts	128MB	VIK6642CL2
	256MB	VIK2642CL2
Memory Card Technology	128MB	DM1665VS65804X-7G

The following combinations are also inhibited.

- OC cover and Duplex automatic document feeder
- Paper feed module (1-stage desk)/Paper feed module (3-stage desk)/Revere bypass module + Paper feed module (2-stage) (Only one of them can be installed.)

2. Block diagram


RADF unit (Option)
Operation section
PC
Printer controller (Option)
Image scanning (writing) section (CCD PWB)
Image process section (MFP PWB)
Image process section 2 (ICU PWB)
Page memory
LED head (writing) section (Y)
LED head (writing) section (M)
LED head (writing) section (C)
LED head (writing) section (K)
PCU PWB
Photo-conductor section (Y)
Photo-conductor section (M)
Photo-conductor section (C)
Photo-conductor section (K)
DC power unit
AC power unit
Developing section (Y)
Developing section (M)
Developing section (C)
Developing section (K)
Finisher (Option)
Fusing/paper exit section
Reverse bypass module (Option)
Transfer section
Large capacity paper feed tray unit (Option) Outside Japan only
Paper feed tray section 1
Paper transport section
Duplex section (Option)
Sorter
Paper feed tray section 2 (Option)
Paper tray section 3 (Option)

[3] SPECIFICATIONS

1. Basic specifications

A. Base engine

(1) Type

Type	Desk-top

(2) Engine speed

Paper size	Color		B/W	
	Print B/W 4bit mode (Image quality priority mode)	Copy	Print B/W 1bit mode only (Speed priority mode)	Copy
A4	26 ppm	26 cpm	33 ppm	33 cpm
8.5" x 11"	26 ppm	26 cpm	32 ppm	32 cpm
A5/8.5" x 5.5"	26 ppm	26 cpm	33 ppm	33 cpm
B5	26 ppm	26 cpm	33 ppm	33 cpm
B4/8.5" x 14"	15 ppm	15 cpm	17 ppm	17 cpm
A3/11" x 17"	13 ppm	13 cpm	15 ppm	15 cpm

(3) Engine composition

Photoconductor kind	OPC (Drum diameter: ϕ30mm x 4)
Recording system	Electronic photo system (LED head system)
Developing system	Contact, non-magnetic 1-component development
Charging system	Saw teeth scorotron corona charging
Transfer system	Transfer belt structure direct transfer system
Cleaning system	Counter blade cleaning system
Fusing system	Pressure roller fusing system
Oil supply	Oil-less system
Waste toner process	Self collection of each toner cartridge Waste toner box collection for transfer belt
Shifter	Standard

(4) Shifter

Type	Shifter			
Paper weight	64 to 105g/m^2, 106 to 200g/m^2			
Paper size	Non offset mode (Simple load) 64 to 200g/m^2	A3W to A5, Postcard, 12" x 18" to 8.5" x 5.5"		
	Offset mode 64 to 200g/m^2	A3 to A5 11" x 17" to 8.5" x 5.5"		
Productivity	Non offset mode: Color 26 sheets, B/W 32 sheets (LT)/33 sheets (A4) Offset mode: Color/B/W 24 sheets			
Offset width	30mm			
Alignment		Extending	FR shift	Between jobs
	Non offset mode	Must not fall from the tray.	—	—
	Offset mode	Within 50mm	Within ± 10mm	1 – 150 sheets: 10mm or more 151 sheets or more: 5mm or more
	* When A4/Letter recommended paper is used.			

(5) Engine resolution

Resolution	Writing: 600dpi x 600dpi	
Smoothing	None	
Gradation	Color	Writing: 1 pixel 16 gradations for each color *
	B/W	Writing: 1 pixel 2 gradations (1bit) 16 gradations (4bit)

* Dither matrix allows printing in 1-pixel, 256-gradation (8bit).

(6) Warm-up

Warm-up time	99sec
Pre-heat function	Yes

(7) Jam recovery time

With the left cover open	About 60sec	60sec left standard condition
With the right and front covers open	About 8sec	

(8) Image chip (Printable area)

Full size	Total circumference 4mm ± 2mm Only when A3 full image is outputted, 6mm or less in total. CHP1 mode: 10mm or less at lead/rear edges

(9) Power source

Voltage	100V / 120V
Frequency	50/60Hz
Power cord	Inlet type

(10) Power consumption

Max. power consumption	1450W
Stand-by (average)	180W
Low power mode	90Wh
Sleep mode	15Wh or less
Energy consumption efficiency	257Wh/h

(11) Noise/Ozone

Noise	Operating	B/W	68dB or less
		Color	63dB or less
	Stand-by		55dB or less
	Sleep		40dB or less
Ozone			0.02g/m^3 or less

(12) External dimensions

	Copier (without desk)	Copier (with 3-stage desk)
Floor to Glass surface	670 x 676 x 655mm (26.4 x 26.6 x 25.8 inch)	670 x 676 x 1049mm (26.4 x 26.6 x 41.3 inch)
Floor to OC top surface	670 x 676 x 709mm (26.4 x 26.6 x 27.9 inch)	670 x 676 x 1104mm (26.4 x 26.6 x 43.5 inch)

(13) Weight

Toner cartridge	Copier (without desk)	Copier (with 3-stage desk)
Not installed	About 85kg (About 187 lbs.)	About 114.5kg (About 252 lbs.)
Installed	About 95kg (About 209 lbs.)	About 124.5kg (About 274 lbs.)

(14) Machine occupying dimensions

Machine occupying dimensions (Machine only, with the trays full open)	994 x 676mm (39.1 x 26.6 inch)

B. Paper feed unit

(1) Machine paper feed tray

Paper feed system	1-stage tray
Paper feed size	AB series: A3, B4, A4, A4R, B5, B5R, A5, Special paper Inch series: 11" x 17", 8.5" x 14", 8.5" x 13", 8.5" x 11", 8.5" x 11"R, 8.5" x 5.5", A4, EXTRA
Paper feed capacity	550 sheets (64g/m^2 (17 lbs.) paper) 500 sheets (80g/m^2 (21 lbs.) paper, recommended paper for color)
Weight of paper suitable for paper feed	64 to 105g/m^2 (17 to 28 lbs)
Paper kind	Normal paper (including recommended paper for color), recycled paper, printed paper, punched paper, color paper, letter head
Paper size detection	Slide lever detection
Paper size selection	Use selection (Special paper size is inputted from the operation panel.)
Heater	Yes (Japan Only)
Remaining quantity detection	Yes (0, 25%, 50%, 75%, Full, 5 steps)
Initial size when shipping	A3 (11" x 17")
Tray attach/detach	Possible
Universal support	Universal tray (free size)

(2) Manual feed tray (Bypass tray)

Transport reference	Center reference
Paper feed capacity	250 sheets (80g/m^2), 300 sheets (64g/m^2), 100 sheets (Postcard)
Paper size	A3W to A6R (Postcard)
Paper weight	64 to 300g/m^2 / 17 to 80lbs specified paper for color
Paper kind	Normal paper (including recommended paper for color), OHP1, OHP2. heavy paper 1 (106 to 200g/m^2 (28 to 53 lbs.)), heavy paper 2 (201 to 300g/m^2 (54 to 80 lbs.)), envelope
Paper size detection	Inch series: 12" x 18", 11" x 17", 8.5" x 14", 8.5" x 11", 8.5" x 11"R, 7.25" x 10.5"R, 8.5" x 5.5", A3, B4, A4, B5, A6R AB series: A3W, A3, B4, A4, A4R, B5, A5, A6R, 11" x 17", 8.5" x 14", 8.5" x 11", 7.25" x 10.5"R
Manual feed size setup	Yes (Ignoring automatic setup) Selected with key operation.

Detection of 8.5 x 14 can be changed to detection of 8.5 x 13 (216 x 330) with the simulation.

C. Paper exit unit

(1) Face down paper exit tray (Top section)

Paper exit position/system	Machine top face down paper exit
Paper exit capacity	500 sheets (A4/LT recommended paper for color)
Paper size	A6R (Postcard), 8.5 x 5.5 to A3W
Paper weight	64 to 200g/m^2 (17 to 53 lbs.)
Paper kind	Normal paper (including recommended paper for color), heavy paper 1 (106 to 200g/m^2 (28 to 53 lbs.))
Remaining quantity detection	No
Discharged paper full detection	Yes

(2) Face up paper exit tray (sides)

Paper exit position/system	Machine side face up paper exit
Paper exit capacity	250 sheets (A4/LT recommended paper for color)
Paper size	All sizes which are fed
Paper weight	64 to 300g/m^2 (17 to 80 lbs.)
Paper kind	All sizes which are fed (except for OHP sheets)
Remaining quantity detection	No
Discharged paper full detection	Yes

(3) Face down paper exit tray (side)
(With the reverse unit installed)

Paper exit position/system	Machine side face down paper exit
Paper exit capacity	250 sheets (A4/LT recommended paper for color)
Paper size	AB series: A3W, A3, B4, A4, A4R, B5, B5R, A5 Inch series: 12" x 18", 11" x 17", 8.5" x 14", 8.5" x 11", 8.5" x 11"R, 7.25" x 10.5"R, 8.5" x 5.5", A3, B4, A4, B5
Paper weight	64 to 200g/m^2 (17 to 53 lbs.)
Paper kind	Normal paper (including recommended paper for color)
Remaining quantity detection	No
Discharged paper full detection	Yes

(4) Face up paper exit tray (side)
(With the reverse unit installed)

Paper exit position/system	Machine side face up paper exit
Paper exit capacity	250 sheets (A4/LT recommended paper for color)
Paper size	A3W to A5R (Postcard)
Paper weight	64 to 300g/m^2 (17 to 80 lbs.)
Paper kind	Normal paper (including recommended paper for color), OHP, heavy paper (106 to 300g/m^2 (28 to 80 lbs.)), all other paper which is supported by the machine.
Remaining quantity detection	No
Discharged paper full detection	Yes

D. Scanner section

(1) Resolution, gradation

Scan resolution (dpi)	600 x 600dpi
Scan speed	Color 16opm / B/W 19opm: A4/LT size
Scan gradation	256 gradations for each color 2 gradations for scanner B/W mode only
Exposure lamp	Xenon lamp without electrode tube
Output gradation	8bit for each color 1bit for Scanner B/W mode only

(2) Document table

Scan range	(A3/WLT full image scan)	
Document reference position	Center reference	
Detection	Yes	
Detection size	Automatic detection	
	Inch series	<INCH-1: Default> 11" x 17", 8.5" x 14", 8.5" x 11", 8.5" x 11"R, 5.5" x 8.5"
		<INCH-2> 11" x 17", 8.5" x 13", 8.5" x 11", 8.5" x 11"R, 5.5" x 8.5"
	AB series	<AB-1: Default> A3, B4, A4, A4R, B5, B5R, A5
		<AB-2> A3, 8.5" x 13" (216 x 330), A4, A4R, B5, B5R, A5
	Manual doc size selection	Yes

2. Functional specifications

A. Specifications of copy functions

(1) Copy speed (Continuous copy speed)

Color / B/W		Color				B/W			
Print/Copy		Print	Copy			Print	Copy		
Paper size	Magnification ratio	B/W 4bit (Image priority mode)	Reduction (25%)	Normal (100%)	Enlargement (400%)	B/W 1bit (Speed priority mode) *3	Reduction (25%)	Normal (100%)	Enlargement (400%)
A3W (12" x 18")		7 ppm	7 cpm	7 cpm	7 cpm	7 ppm	7 cpm	7 cpm	7 cpm
A3 (11" x 17"), 8K		13 ppm	13 cpm	13 cpm	13 cpm	15 ppm	15 cpm	15 cpm	15 cpm
B4 (8.5" x 14" / 8.5" x 13")		15 ppm	15 cpm	15 cpm	15 cpm	17 ppm	17 cpm	17 cpm	17 cpm
A4		26 ppm	26 cpm	26 cpm	26 cpm	33 ppm	33 cpm	33 cpm	33 cpm
8.5" x 11"		26 ppm	26 cpm	26 cpm	26 cpm	32 ppm	32 cpm	32 cpm	32 cpm
A4R (8.5" x 11"R)		19 ppm	19 cpm	19 cpm	19 cpm	22 ppm	22 cpm	22 cpm	22 cpm
B5, 16K		26 ppm	26 cpm	26 cpm	26 cpm	33 ppm	33 cpm	33 cpm	33 cpm
B5R (7.25" x 10.5"R), 16KR		19 ppm	19 cpm	19 cpm	19 cpm	22 ppm	22 cpm	22 cpm	22 cpm
A5 (8.5" x 5.5")		26 ppm	26 cpm	26 cpm	26 cpm	33 ppm	33 cpm	33 cpm	33 cpm
A6R (Postcard)		6 ppm	6 cpm	6 cpm	6 cpm	6 ppm	6 cpm	6 cpm	6 cpm
A6R (Normal paper)		13 ppm	13 cpm	13 cpm	13 cpm	15 ppm	15 cpm	15 cpm	15 cpm
OHP (Speed *2), A4 (LT)		26 ppm	26 cpm	26 cpm	26 cpm	26 ppm	26 cpm	26 cpm	26 cpm
OHP (Image quality), A4 (LT)		13 ppm	13 cpm	13 cpm	13 cpm	13 ppm	13 cpm	13 cpm	13 cpm
Heavy paper 1 (106 to 200g/m^2), A4 (LT) or less		13 ppm	13 cpm	13 cpm	13 cpm	13 ppm	13 cpm	13 cpm	13 cpm
Heavy paper 2 (201 to 300g/m^2), A4 (LT) or less		13 ppm	13 cpm	13 cpm	13 cpm	13 ppm	13 cpm	13 cpm	13 cpm
Envelope *1 (All kinds)		7 ppm	7 cpm	7 cpm	7 cpm	7 ppm	7 cpm	7 cpm	7 cpm
Size specified, EXTRA		7 ppm	7 cpm	7 cpm	7 cpm	7 ppm	7 cpm	7 cpm	7 cpm
Size not specified, EXTRA		7 ppm	7 cpm	7 cpm	7 cpm	7 ppm	7 cpm	7 cpm	7 cpm

∗ ppm: page per minute when printing two or more pages of a same document.
cpm: copy per minute in 1-scan multi copy mode

* 1: Envelope kind: COM10, Monarch, DL, C5, Long No.3, Western type No. 2, Western type No. 4

* 2: Max. speed

* 3: Same as color print in the image quality priority mode (B/W 4bit)

(2) First copy time

Platen/ RADF	Pre-scan	Paper exit position	Rotation copy	B/W	Color
Platen	No	Side face up	No	Within 7.0sec (A4/LT)	Within 8.0sec (A4/LT)
			Yes	Within 8.9sec (A4)	Within 10.7sec (A4)
		Machine face down	No	Within 8.8sec (A4/LT)	Within 10.2sec (A4/LT)
			Yes	Within 10.7sec (A4/LT)	Within 12.6sec (A4/LT)
	Yes	Side face up	No	—	Within 10.9sec (A4/LT)
			Yes	—	Within 14.3sec (A4)
		Machine face down	No	—	Within 12.9sec (A4/LT)
			Yes	—	Within 16.3sec (A4/LT)
RADF	No	Side face up	No	8.0sec	9.5sec
			Yes	Within 10.4sec (A4)	Within 12.3sec (A4)
		Machine face down	No	9.8sec	11.7sec
			Yes	Within 12.1sec (A4/LT)	Within 14.0sec (A4/LT)
	Yes	Side face up	No	—	12.2sec
			Yes	—	Within 15.7sec (A4)
		Machine face down	No	—	14.4sec
			Yes	—	Within 17.6sec (A4/LT)

* When the RADF is used, the data are those without APS.

(3) Job speed

Controller		128MB+256MB ICU: 256MB	
B/W / Color		B/W	Color
Copy method	10 x 1 set (A4) S to S (Letter)	19 cpm	16 cpm
	10 x 5 sets (A4) S to D (Letter)	33 cpm 32 cpm	26 cpm
	5 x 5 sets (A4) D to D (Letter)	33 cpm 32 cpm	26 cpm

Copy conditions: Document size A4 (8.5" x 11"), transfer belt position: B/W position, excluding pre-scan

Note: The above are speeds of copying a single document excluding the pre-rotation and after-rotation of the process and paper cycle time.

(4) Continuous copy

Multi max. number	999 sheets

(5) Resolution

Scan resolution	600 x 600dpi
Writing resolution	600 x 600dpi

(6) Copy magnification ratio

Copy magnification ratio	AB series: 25%, 50%, 70%, 81%, 86%, 100%, 115%, 122%, 141%, 200%, 400% Inch series: 25%, 50%, 64%, 77%, 95%, 100%, 121%, 129%, 200%, 400%
Custom magnification ratio registration	AB series/Inch series: 4 keys (2E/2R)
Zoom	25%, 45 to 400% (1% increment)
Independent zoom	Yes (25, 45 to 400%)

(7) Density, copy image process

Exposure mode	Color (Hexadecimal)	Auto: Auto, Pre-scan allowed
	B/W (Binary)	Auto: Text Auto: AE, Pre-scan inhibited
Color enhancement		Yes (Valid for Text, Text/Print, Text/Photo, Print, Photo, Map)
Manual steps		9 steps
Smoothing process		No
Toner save mode		Yes (for B/W)

(8) Copy functions

Functions	APS	Yes
	AMS	Yes
	ACS (Auto Color Selection)	No
	Paper type select	Yes
	Free size input	Document: Yes Paper: Yes (Manual feed cassette)
	Auto tray switching	Yes
	Rotation copy	Yes (A4/8.5 x 11/B5/16K paper size only)
	Rotation sort	No
	Electronic sort (E-RDH)	Yes (B/W only)
	Copy reservation	No
	Program call/registration	Yes (Max. 9 items)
	Proof copy	No
	Pre-heat	Yes (Conditions are set by the key operation.)
	Auto power shut off	Yes (Conditions are set by the key operation.)
	Department management	Yes (200 departments)
	Key operator program	Yes
	Communication support (RIC)	Yes (Requires Connector or Installing port.)
	Process control	Yes
	Card counter support	Option (Japan only)
	Con vendor support	Yes (A connector must be installed inside the machine.)
Special functions	Binding margin	Yes
	Edge erase/Center erase	Yes
	1 set 2 copy	Yes
	Cover paper	Yes (Color, one sheet only)
	OHP insert paper	Yes (White paper insertion only)
	Insert paper insertion (Index)	No
	Centering	Yes
	Multi shot (N in 1)	Yes (Ruled line ON/OFF allowed)
	Center binding	Option (B/W only) * Requires Duplex desk, Duplex pass/Inverter, Saddle finisher (in saddle stitch only).
	Duplex copy direction switch	Option * Requires Duplex desk, Duplex pass/Inverter.
	Negative/Positive conversion	No
	Photo repeat	Yes (2/4/8/12/16/24)10 is for visiting cards.
	RGB adjustment	Yes
	Color balance	Yes

Special functions	Color Gamma adjustment	Yes
	Brightness adjustment	Yes
	Contrast adjustment	No
	Sharpness adjustment	Yes
	Mirror image	Yes
	Single color	6 colors (R, G, B, C, M, Y)
	Enlargement continuous copy	Yes
	Background erase	Yes
	A3 wide copy	Yes
	Auto color calibration	Yes
	Auto registration	Yes

(9) Memory limitation matrix

Copier specifications		ICU PWB	Combination	Standard	Expansion 1	Expansion 2
			Standard (Slot 1)	256MB	256MB	256MB
			Expansion memory (Slot 2)	—	128MB	256MB
			Total memory capacity	256MB	384MB	512MB
		Mode	Document size	—	—	—
Copy	Single	Color	to A4 (8.5" x 11")	SOPM	SOPM	SOPM
			B4, A3 (8.5" x 14", 11" x 17")	SOPM	SOPM	SOPM
			A3W (12" x 18")	SOPM	SOPM	SOPM
		B/W	to A4 (8.5" x 11")	400 surfaces	400 surfaces	680 surfaces
			B4, A3 (8.5" x 14", 11" x 17")	200 surfaces	200 surfaces	340 surfaces
			A3W (12" x 18")	165 surfaces	165 surfaces	280 surfaces
	Duplex	Color	to A4 (8.5" x 11")	SOPM	SOPM	SOPM
			B4, A3 (8.5" x 14", 11" x 17")	No	SOPM	SOPM
			A3W (12" x 18")	—	—	—
		B/W	to A4 (8.5" x 11")	400 surfaces	400 surfaces	680 surfaces
			B4, A3 (8.5" x 14", 11" x 17")	200 surfaces	200 surfaces	340 surfaces
			A3W (12" x 18")	—	—	—

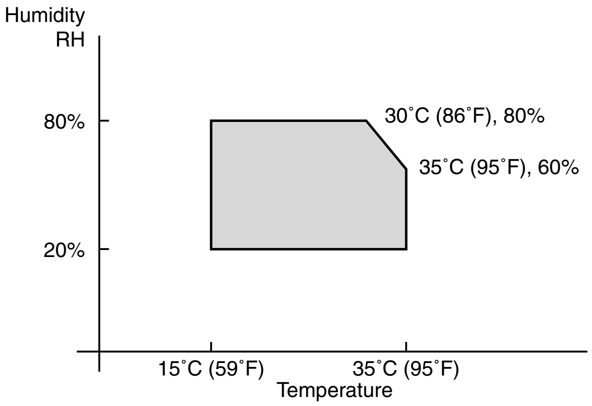
B/W (Electronic sort): Equivalent to "TEST SHEET B."

SOPM: Scan Once Print (Copy) Many

3. Environment conditions

A. Operating environment conditions

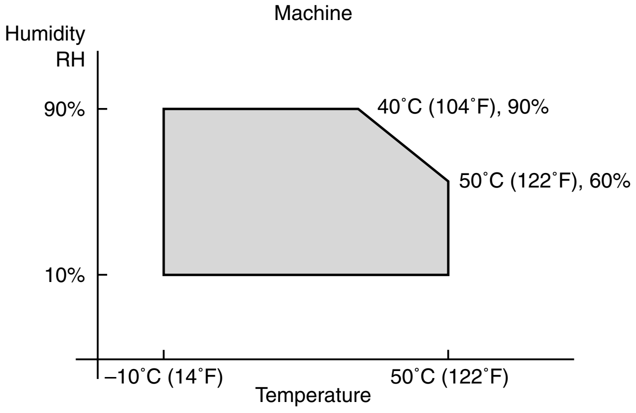
(1) Temperature and humidity

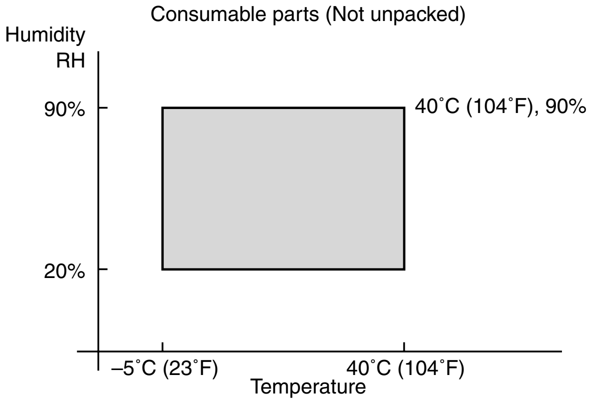


(2) Power voltage and frequency

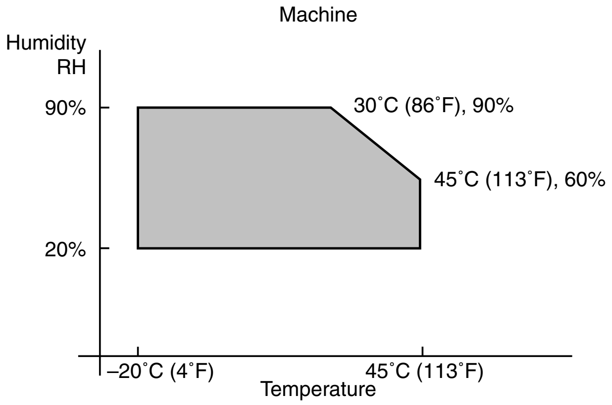
Power voltage	Specified voltage ±10%
Power frequency	Specified frequency ±2%

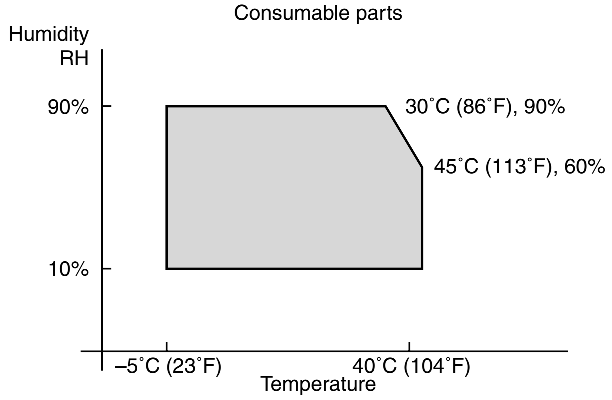
B. Storage environment conditions





C. Transit environment conditions





D. Standard temperature and humidity

Temperature	20 to 25°C (68 to 77°F)
Humidity	65 ±5%

[4] CONSUMABLE PARTS

1. Supply system table

A. USA/Canada

	Part name	Model name	Content		Life	Packing	Remark
1	Toner (Black)	AR-C26TBU	Toner cartridge (Black)	x 1	16.7K (A4/LT 6%)	10	For A4/LT 5%, life is 20K.
2	Color toner (Cyan)	AR-C26TCU	Toner cartridge (Cyan)	x 1	5.5K (A4/LT 10%)	10	
3	Color toner (Magenta)	AR-C26TMU	Toner cartridge (Magenta)	x 1	5.5K (A4/LT 10%)	10	
4	Color toner (Yellow)	AR-C26TYU	Toner cartridge (Yellow)	x 1	5.5K (A4/LT 10%)	10	
5	Photoconductor drum cartridge	AR-C26DU	Drum cartridge (including OPC drum & unit parts) Color identification seal (Y/M/C/K)	x 1 x 1 each	50K	10	
6	Drum	AR-C26DR	OPC Drum	x 1	50K	10	
7	Main charger kit	AR-C26MK	Charging unit Cleaning blade Toner reception seal	x 1 x 1 x 1	50K	10	

B. Europe/Australia

	Part name	Model name	Content		Life	Packing	Remark
1	Toner (Black)	AR-C26TBE	Toner cartridge (Black)	x 1	16.7K (A4/LT 6%)	10	For A4/LT 5%, life is 20K.
2	Color toner (Cyan)	AR-C26TCE	Toner cartridge (Cyan)	x 1	5.5K (A4/LT 10%)	10	
3	Color toner (Magenta)	AR-C26TME	Toner cartridge (Magenta)	x 1	5.5K (A4/LT 10%)	10	
4	Color toner (Yellow)	AR-C26TYE	Toner cartridge (Yellow)	x 1	5.5K (A4/LT 10%)	10	
5	Photoconductor drum cartridge	AR-C26DUE	Drum cartridge (including OPC drum & unit parts) Color identification seal (Y/M/C/K)	x 1 x 1 each	50K	10	
6	Drum	AR-C26DM	OPC Drum	x 1	50K	10	
7	Main charger kit	AR-C26MKE	Charging unit Cleaning blade Toner reception seal	x 1 x 1 x 1	50K	10	

C. Central & South America

	Part name	Model name	Content		Life	Packing	Remark
1	Toner (Black)	AR-C26TBA	Toner cartridge (Black)	x 1	16.7K (A4/LT 6%)	10	For A4/LT 5%, life is 20K.
2	Color toner (Cyan)	AR-C26TCA	Toner cartridge (Cyan)	x 1	5.5K (A4/LT 10%)	10	
3	Color toner (Magenta)	AR-C26TMA	Toner cartridge (Magenta)	x 1	5.5K (A4/LT 10%)	10	
4	Color toner (Yellow)	AR-C26TYA	Toner cartridge (Yellow)	x 1	5.5K (A4/LT 10%)	10	
5	Photoconductor drum cartridge	AR-C26DU	Drum cartridge (including OPC drum & unit parts) Color identification seal (Y/M/C/K)	x 1 x 1 each	50K	10	
6	Drum	AR-C26DR	OPC Drum	x 1	50K	10	
7	Main charger kit	AR-C26MK	Charging unit Cleaning blade Toner reception seal	x 1 x 1 x 1	50K	10	

D. Philippine/Taiwan/SMEF

	Part name	Model name	Content		Life	Packing	Remark
1	Toner (Black)	AR-C26TBP	Toner cartridge (Black)	x 1	16.7K (A4/LT 6%)	10	For A4/LT 5%, life is 20K.
2	Color toner (Cyan)	AR-C26TCP	Toner cartridge (Cyan)	x 1	5.5K (A4/LT 10%)	10	
3	Color toner (Magenta)	AR-C26TMP	Toner cartridge (Magenta)	x 1	5.5K (A4/LT 10%)	10	
4	Color toner (Yellow)	AR-C26TYP	Toner cartridge (Yellow)	x 1	5.5K (A4/LT 10%)	10	
5	Photoconductor drum cartridge	AR-C26DU	Drum cartridge (including OPC drum & unit parts) Color identification seal (Y/M/C/K)	x 1 x 1 each	50K	10	
6	Drum	AR-C26DR	OPC Drum	x 1	50K	10	
7	Main charger kit	AR-C26MK	Charging unit Cleaning blade Toner reception seal	x 1 x 1 x 1	50K	10	

E. SOCC parts

	Part name	Model name	Content		Life	Packing	Remark
1	Toner (Black)	AR-C26TB-C	Toner cartridge (Black)	x 1	16.7K (A4/LT 6%)	10	For A4/LT 5%, life is 20K.
2	Color toner (Cyan)	AR-C26TC-C	Toner cartridge (Cyan)	x 1	5.5K (A4/LT 10%)	10	
3	Color toner (Magenta)	AR-C26TM-C	Toner cartridge (Magenta)	x 1	5.5K (A4/LT 10%)	10	
4	Color toner (Yellow)	AR-C26TY-C	Toner cartridge (Yellow)	x 1	5.5K (A4/LT 10%)	10	
5	Photoconductor drum cartridge	AR-C26DU-C	Drum cartridge (including OPC drum & unit parts) Color identification seal (Y/M/C/K)	x 1 x 1 each	50K	10	
6	Drum	AR-C26DR-C	OPC Drum	x 1	50K	10	
7	Main charger kit	AR-C26MK-C	Charging unit Cleaning blade Toner reception seal	x 1 x 1 x 1	50K	10	

F. SRH parts

	Part name	Model name	Content		Life	Packing	Remark
1	Toner (Black)	AR-C26TB-C	Toner cartridge (Black)	x 1	16.7K (A4/LT 6%)	10	For A4/LT 5%, life is 20K.
2	Color toner (Cyan)	AR-C26TC-C	Toner cartridge (Cyan)	x 1	5.5K (A4/LT 10%)	10	
3	Color toner (Magenta)	AR-C26TM-C	Toner cartridge (Magenta)	x 1	5.5K (A4/LT 10%)	10	
4	Color toner (Yellow)	AR-C26TY-C	Toner cartridge (Yellow)	x 1	5.5K (A4/LT 10%)	10	
5	Photoconductor drum cartridge	AR-C26DU-C	Drum cartridge (including OPC drum & unit parts) Color identification seal (Y/M/C/K)	x 1 x 1 each	50K	10	
6	Drum	AR-C26DR-C	OPC Drum	x 1	50K	10	
7	Main charger kit	AR-C26MK-C	Charging unit Cleaning blade Toner reception seal	x 1 x 1 x 1	50K	10	

2. Consumables (kit, unit)

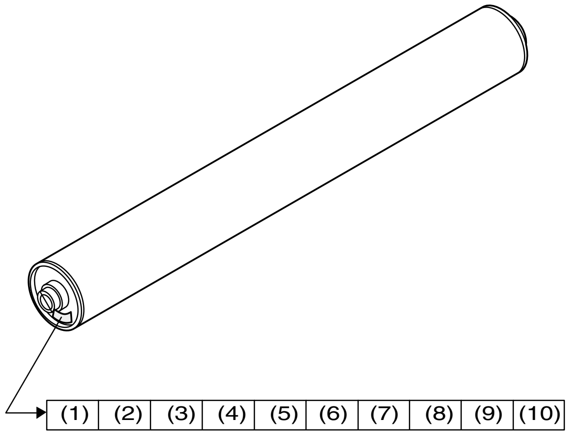
	Part name	Model name	Content		Life
1	Upper heat roller kit	AR-C26UH	Upper heat roller Heat roller 60T gear Upper heat roller bearing Thermistor Upper heat roller stopper	x 1 x 1 x 2 x 1 x 2	100K *1
2	Lower heat roller kit	AR-C26LH	Lower heat roller Lower heat roller bearing Thermistor Lower heat roller stopper Fusing separation pawl lower	x 1 x 2 x 1 x 2 x 2	100K *1
3	Transfer belt kit	AR-C26TT	Transfer belt	x 1	100K *1
4	Transfer roller kit	AR-C26TX	Transfer roller	x 4	100K
5	Transfer waste toner tank unit	AR-C26HB	Transfer waste toner tank unit	x 1	100K
6	Filter kit	AR-C26FL	Ozone filter A Ozone filter B	x 1 x 1	50K
7	Saddle staple cartridge	AR-SC2	—		
5	Fusing unit	AR-C26FU (230V heater lamp) AR-C26FU1 (120V heater lamp) AR-C26FU2 (100V heater lamp)	Fusing unit for servicing (including upper/lower heater lamps)		*1
6	Transfer belt unit	AR-C26TU	Transfer unit for servicing		100K *1

*1: Replace at 100K or within 2 years

3. Photoconductor, developer, toner

A. Lot number identification and the term of validity

(1) Photoconductor



(1) Figure
2 for this model

(2) Alphabet
Indicates the model support code.

(3) Figure
Indicates the end digit of the production year.

(4) Figure or X, Y, Z
Indicates the production month. (X= October, Y= November, Z= December)

(5) (6) Figure
Indicates the production day.

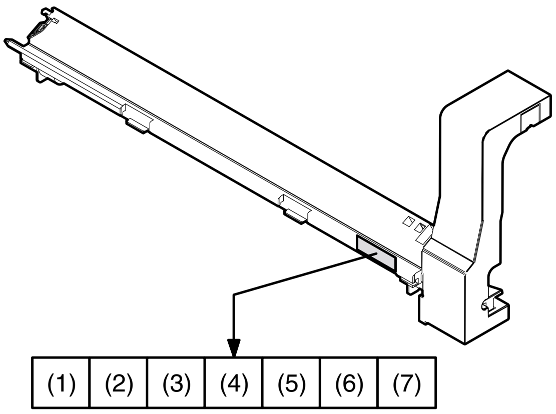
(7) Figure or X, Y, Z
Indicates the packing month. (X= October, Y= November, Z= December)

(8) (9) Figure
Indicates the packing day.

(10) Figure or alphabet
Indicates the production division.

The term of validity: 36 months from the production day (month).

(2) Photoconductor cartridge



(1) Figure
Version No.

(2) Figure
The end digit of the year.

(3) Alphabet
Production code (B for SOCC)

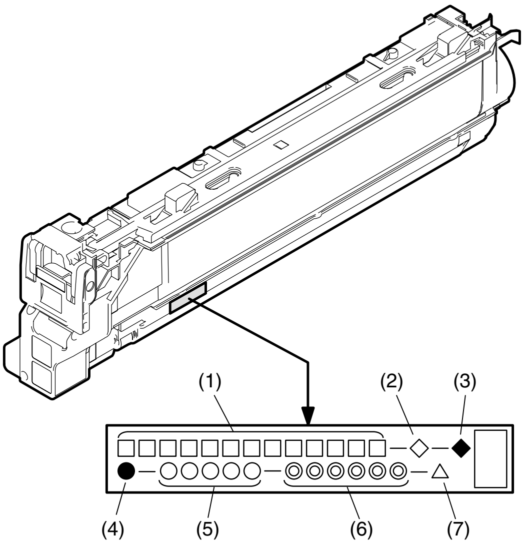
(4) Alphabet
Destination code

(5) (6) Figure
Production day

(7) Figure or X, Y, Z
Indicates the production month. (X= October, Y= November, Z= December)

The term of validity: 24 months from the production day (month).

(3) Toner cartridge



(1) Alphabet or figure
Unit code

(2) Alphabet
Destination code

(3) Alphabet
Skating

(4) Alphabet
Production site code

(5) Figure
Serial number (5 digits)

(6) Figure
Production year, month, day (6 digits)

(7) Alphabet
Version No. (A ~ sequentially revised)

The term of validity: 24 months from the production day (month).

[5] UNPACKING AND INSTALLATION

1. Installing (use) conditions

Before installing the machine, check that the following installing (use) conditions are satisfied.

If the installing (use) conditions are not satisfied, the machine may not display full performances, resulting in troubles. It may also cause safety problems. Therefore, be sure to arrange the installing (use) conditions before setting up the machine.

No.	Content
1	Bringing space
2	Installing space
3	Power source (Capacity, fluctuation, safety)
4	Floor strength
5	Direct rays of the sun, dust, temperature, humidity, gases, chemicals

A. Bringing space

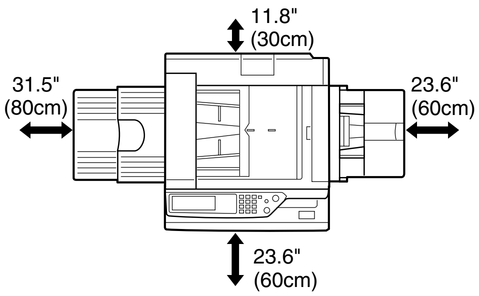
For installation of a large size machine, be sure to check that the door size is great enough before bringing in.

B. Installing space

The following space must be provided around the machine in order to assure machine performances and proper operations.

If any option is installed, provide the additional space for installing it.

Especially the space at the rear of the machine must be provided sufficiently. If not, the machine cannot exhibit functions against heat and dust, causing some troubles.



C. Power source
(Capacity, voltage, frequency, safety, plug)

If the power specifications are not satisfied, the machine cannot exhibit full performances and may cause safety trouble.

Strictly observe the following specifications.

(1) Power capacity

Check that the following power capacity is satisfied. If not, additionally provide a power source.

Current capacity

Japan: 20A or more

100V: 15A or more

200V: 10A or more

(2) Power voltage

Measure the voltage during copying to check that the voltage is in the range of the specified voltage ±10%.

If the voltage is outside the specified range, use thicker lead wires to reduce impedance.

(An electrical work is required.)

Use of a step-up transformer is also available. In this case, the capacity must be great enough for the max. power consumption of the machine.

(3) Power frequency, waveform

The frequency must be within the range of the specified frequency ±2%. If power waveform is deformed, a trouble may occur.

(4) Safety

Be sure to properly ground the machine.

(5) Power plug

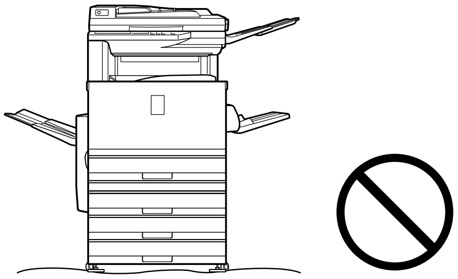
Check the form of the power plug. If the shape does not match, do not use it.

D. Floor strength and level

This machine is considerably heavy and becomes heavier with an option installed.

The floor must be strong enough for assuring safety.

If not, color shift or image distortion may occur.

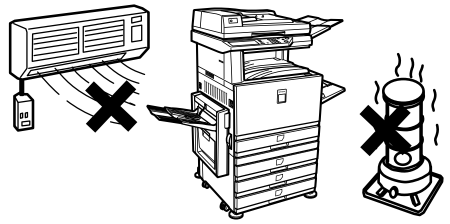


E. Direct rays of the sun, dust, temperature, humidity, gasses, chemicals, vibration

(1) Temperature and humidity

This machine is designed to perform properly under the specified temperature and humidity. If the temperature and humidity exceeds the specified range, the machine may not operate properly and or cause equipment failure.

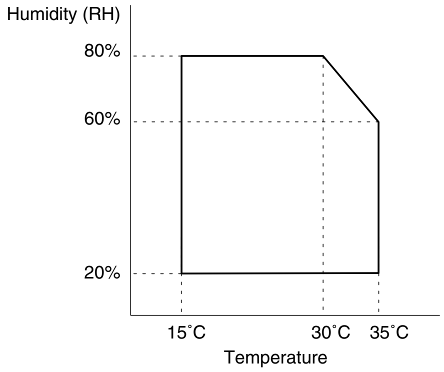
Especially when the humidity is too high, paper absorbs humidity to cause a paper jam or dirty copy.



(Do not install the machine near a stove, a humidifier, or an air conditioner.)

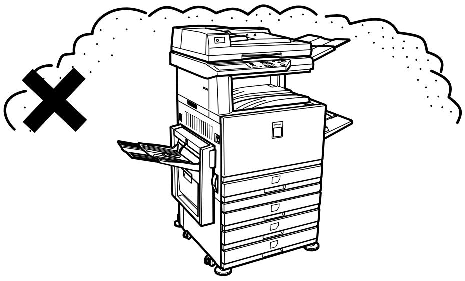
Do not install the machine near a heater, a cooler, or a humidifier.

Dew may be formed inside the machine to cause a trouble. Use enough care for ventilation.



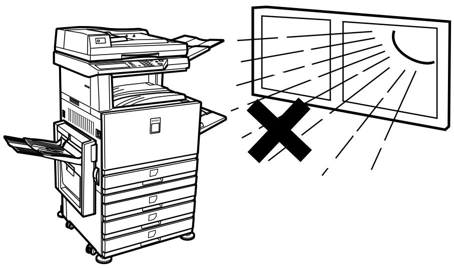
(2) Dust

If dust enters the machine, it may cause dirty copy and a paper jam, resulting in a shortened lifetime.



(3) Direct rays of the sun

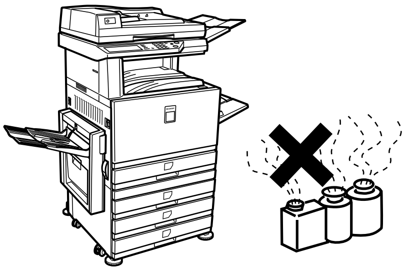
If the machine is installed under the rays of the sun, the exterior of the machine may be discolored and abnormal copies may be produced.



(4) Gases and chemicals

Do not install the machine at a place where there are gases and chemicals. Especially be careful to avoid installation near a diazo-type copier, which produces ammonium gas.

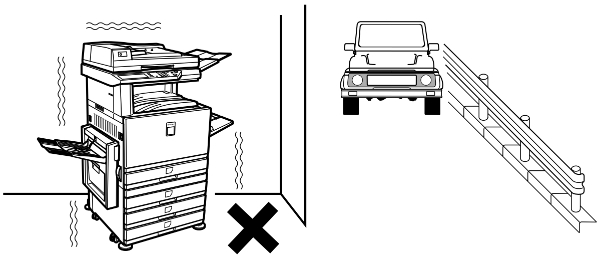
Copy quality may be adversely affected and a trouble may be caused.



(5) Vibration

Avoid installation near a machine which produces vibrations.

If vibrations are applied to the copier machine, copy images may be deflected and a trouble may be caused.



2. Transit and delivery

No.	Content	Method
1	Implements, facility, and man power	Use a forklift. (If no forklift is available, manpower of four persons is required.)
2	Delivery	Transit must be made in packed condition.

A. Implements, facility, and manpower

It is recommendable to use a forklift for bringing in the machine for safety.

If no forklift is available, man-power of four persons is required. The machine is considerably heavy, and requires safety precautions for delivery and installation.

Transit of the machine must be made in packed condition to the installing place.

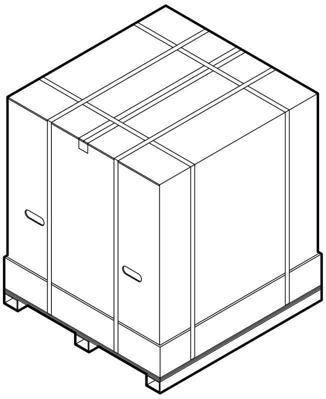
B. Delivery

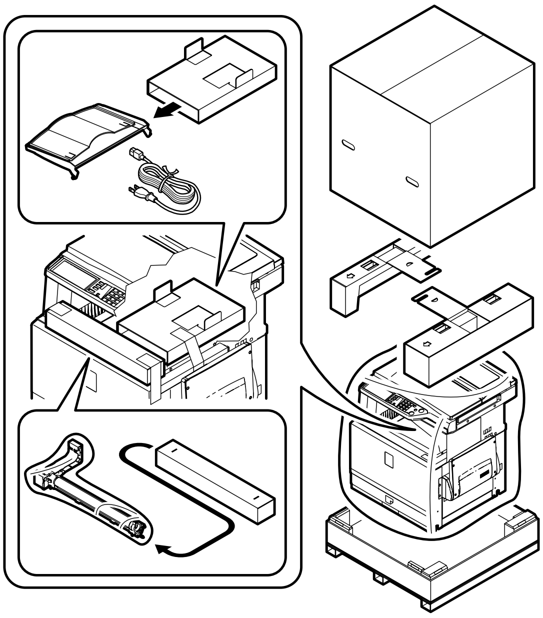
Remove the packing materials prior to installation in the ofice environment.

3. Unpacking

A. Unpacking procedure

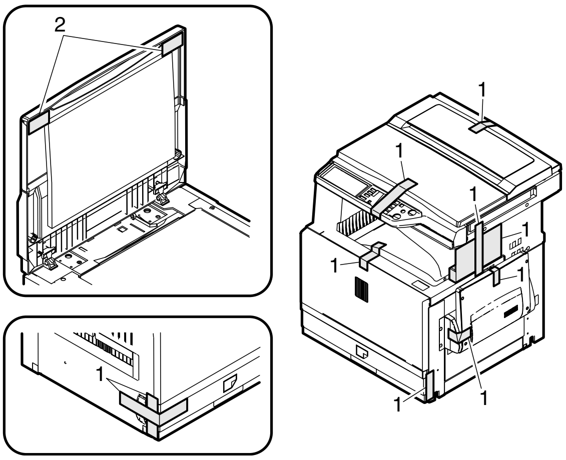
1) Remove the PP band.
2) Remove the top case.
3) Remove the internal packing pads and the items packed together with the machine.
4) Remove the machine from the package.





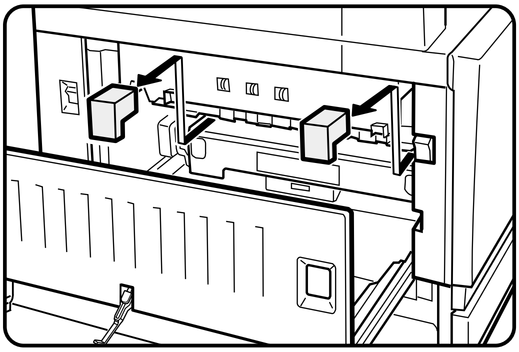
Fixing tape and protection pads removal

1) Remove the fixing tape and protection pads from the machine.



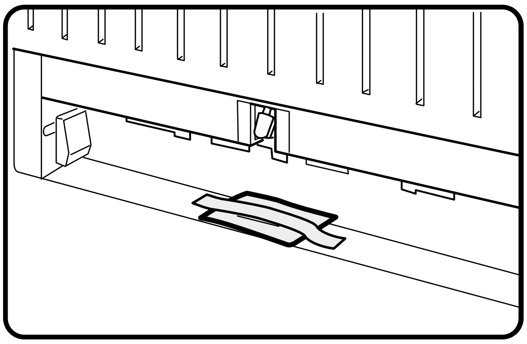
Note: The document cover may be supplied as a standard part in some destinations, and may be an option in some other destinations.

2) Open the left door, and remove the transfer fixing pads.

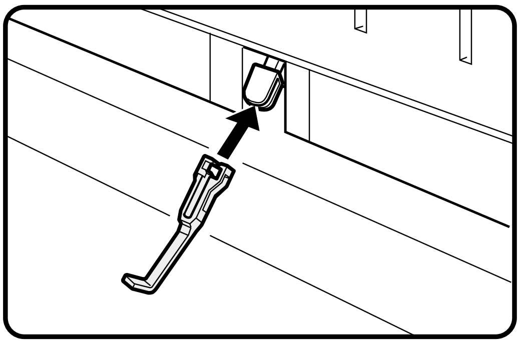


Actuator installation

1) Remove the actuator fixed to the left door.



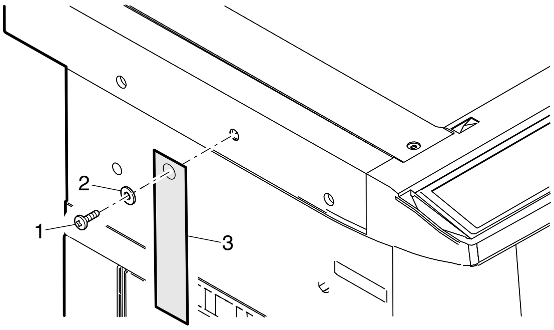
2) Install the actuator to the paper exit port of the left door.



4. Lock release

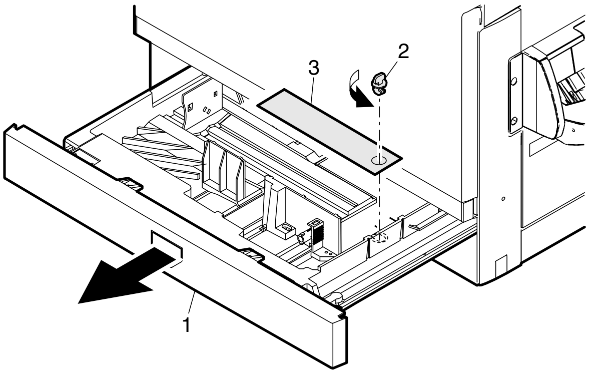
A. Scanner (2/3 mirror unit) lock release

1) Remove the scanner fixing screw, and remove the caution label.



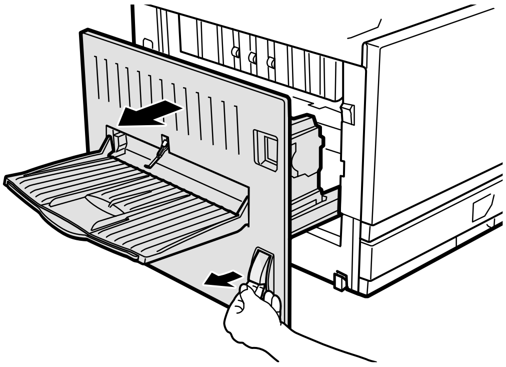
B. Main body cassette lock release

1) Pull out the main body cassette.
2) Remove the rotation plate fixing pad and remove the caution label.

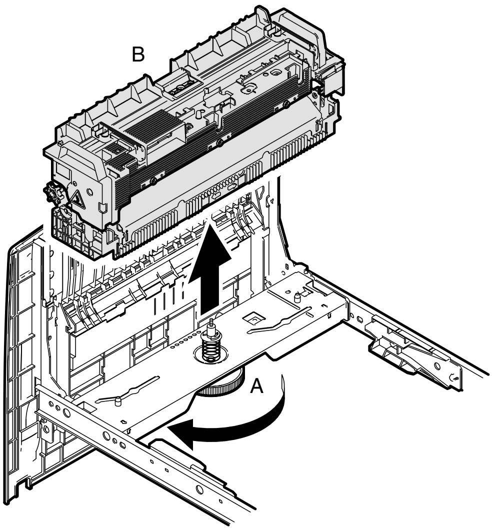


C. Transfer unit pressure release

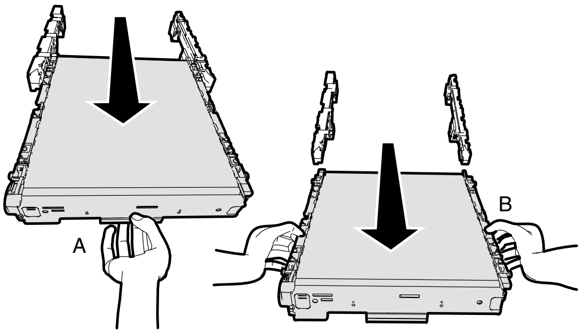
1) Pull the knob and open the left door.



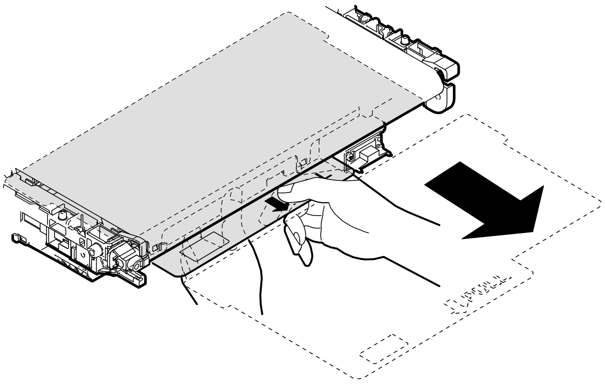
2) Loosen the roller knob (A), and remove the fusing unit (B).

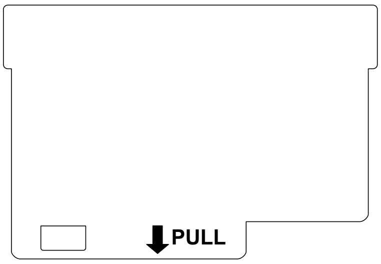


3) Hold section A of the transfer unit and pull it out so that the both sides of the transfer unit can be held.
4) Hold sections B and remove the transfer unit.

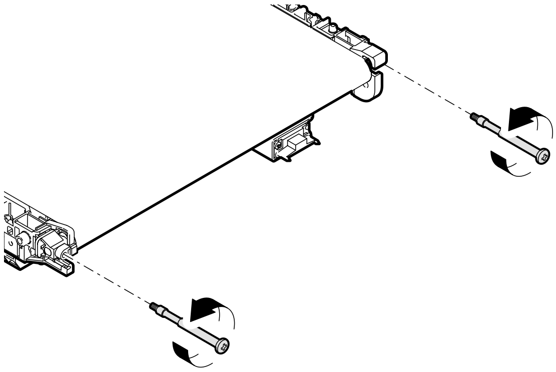


5) Remove the transfer belt protect sheet.





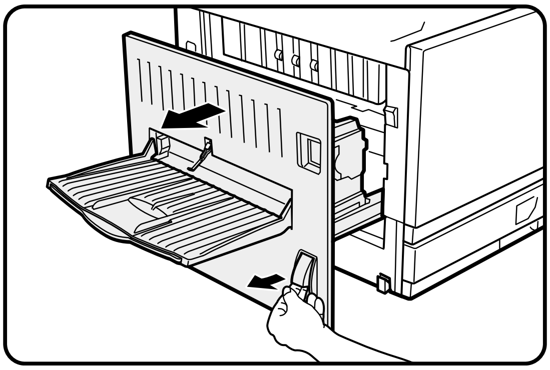
6) Remove the screw and apply a tension to the transfer belt.



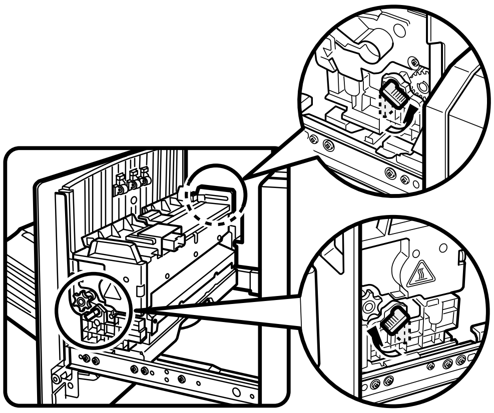
7) Install the transfer unit to the machine.

5. Fusing heat roller pressing (F/R)

1) Pull the knob and open the left door.



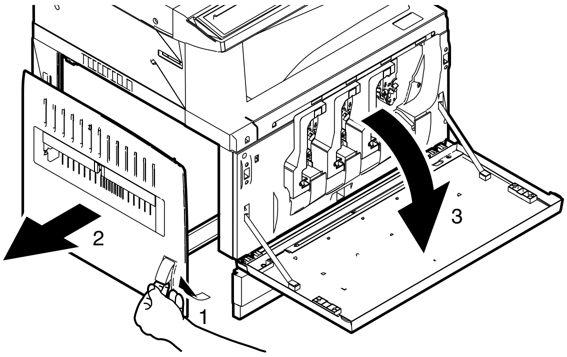
2) Turn the pressure release lever to press.



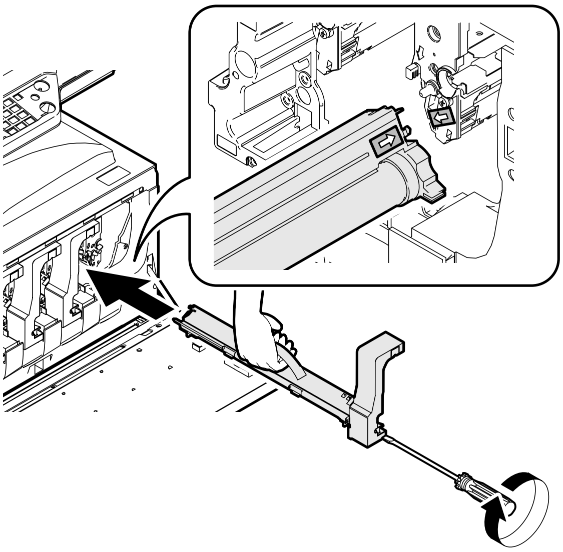
Note: If the machine is left for one month or more, the heat roller rubber may be deformed. In such a case, therefore, release the pressure.

6. Black drum cartridge insertion

1) Pull the knob and open the left door.
2) Open the front cover.

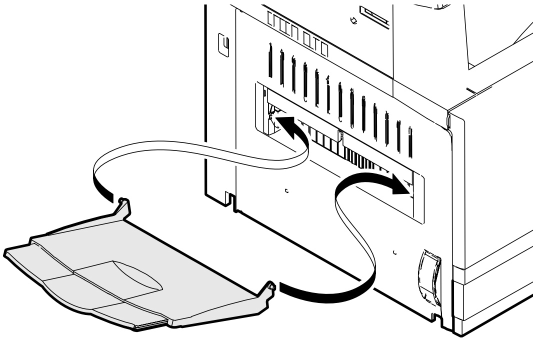


3) Insert the black drum cartridge, and fix it with a screw.



7. Paper exit tray installation

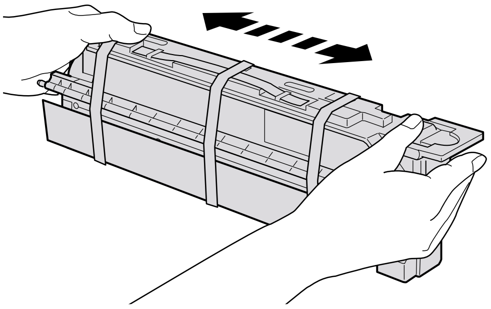
1) Install the paper exit tray to the left door.



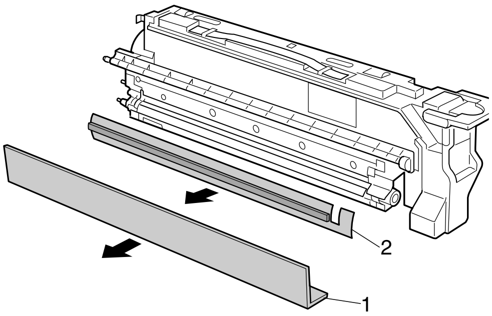
Note: The paper exit tray may be supplied as a standard part in some destinations, and may be an option in some other destinations.

8. Toner cartridges installation

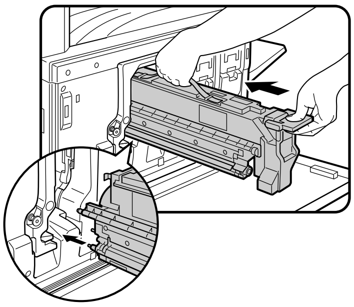
1) Shake the toner cartridge horizontally several times.



2) Remove the tape, and remove the protection pad.

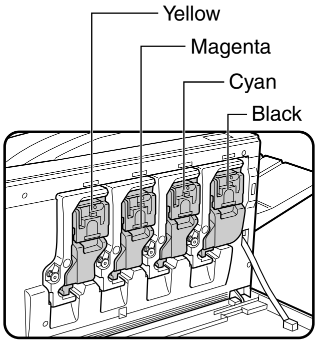


3) Open the front cover.
4) Insert the toner cartridge.
   * As shown below, fit the cartridge with the insertion port and push it in.

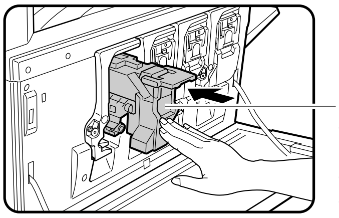


Note: Be sure to install the color cartridges to their proper positions. Avoid instillation to a different color position.

[Color toner cartridge positions]

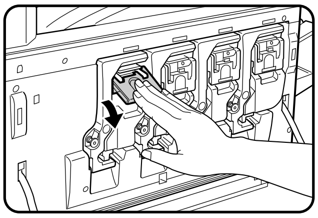


5) Insert the cartridge securely until it locks.

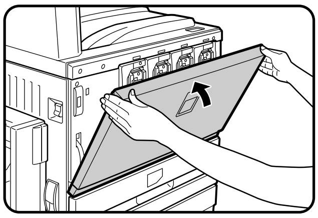


Do not press this section. (If it is pressed, the lock lever falls.)

6) Return the cartridge lever to the original position.

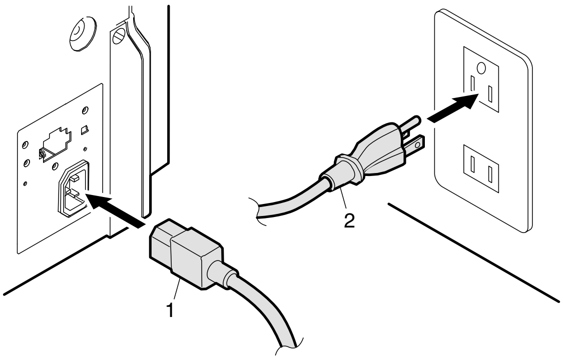


7) Close the front cover.



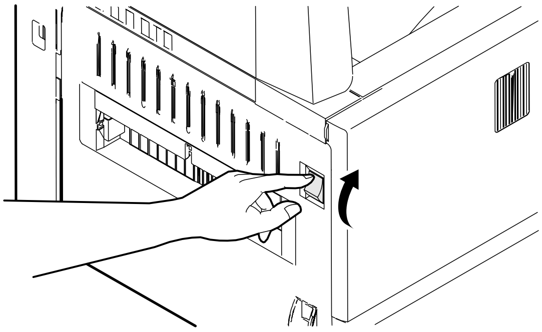
9. AC cord connection

1) Insert the AC power plug into the connector at the rear of the machine, and connect the other end to the power outlet.



10. Machine power ON

1) Turn on the power switch on the left side of the machine.



11. Specifications setup

Used to set the specifications with SIM26 according to the customer's request.

SIM No		Content
26	6	Used to set the destination.

To customize the following items after completion of the destination setup, change the set values.

SIM No		Content
26	2	Used to set the large capacity paper feed tray paper size.
		Used to set the detection paper size and display when using 8.5 x 13 size paper and document.
		Used to set the paper kind and the display form in the manual paper feed mode.
	3	Used to set the auditor specification mode.
	5	Used to set the count mode of the total counter and the maintenance counter.
	18	Used to set YES/NO of the toner save mode (Only in UK and Japan versions) For other destination versions, this setup is made by the user program.
	52	Used to set YES/NO of counting when non-print paper is passed through each counter.
	53	Used to set YES/NO of user calibration permission.
	65	Used to set the limit number of sheets for stapling.

On completion of the installation of the AR-F13 finisher, please change the default output tray of the machine to the top tray of the finisher.

12. Image quality check

Check the following items related to image quality. For details of the adjustment and checking procedures, refer to the chapter of adjustments.

1) Image focus, image skew (Refer to ADJ 3.)
2) Image registration (Refer to ADJ 4.)
3) Image loss, void area (Refer to ADJ 10.)
4) Copy color balance, density (Refer to ADJ 11.)

Check that the above items are normal. If not, make the adjustment.

13. Function and operation check

Check that the following operations are normal.

Check item		Installation	
Key input operation (Operation panel)			
Display (Operation panel)			
Paper feed operation	Manual paper feed		
	Machine paper tray		
	Desk unit paper feed tray	When the desk unit is installed.	
	Large capacity paper feed tray	When the large capacity paper feed tray is installed.	
Paper size detection operation			
Document size detection operation	Document table mode		
	RADF mode	When the RADF is installed.	
RADF operation/ Duplex copy operation	S-S mode	When the RADF is installed.	
	D-S mode	When the RADF is installed.	
	S-D mode	When the RADF is installed.	When the desk unit with the duplex unit is installed.
	D-D mode	When the RADF is installed.	When the desk unit with the duplex unit is installed.

Check item	Installation	
Bookbinding operation	When the finisher is installed.	
Stapling operation	When the finisher is installed.	
Grouping operation	When the finisher is installed.	When the sorter is installed.
Sorting operation	When the finisher is installed.	When the sorter is installed.

14. Setup and adjustment data recording

Print the various setup data and the adjustment data (list) with SIM22-6 and keep the data.

In case of a memory trouble, if the data are not kept, all the adjustments must be made again.

If the data are kept, the setup values and the adjustment values can be entered without adjustments, shortening the servicing time.

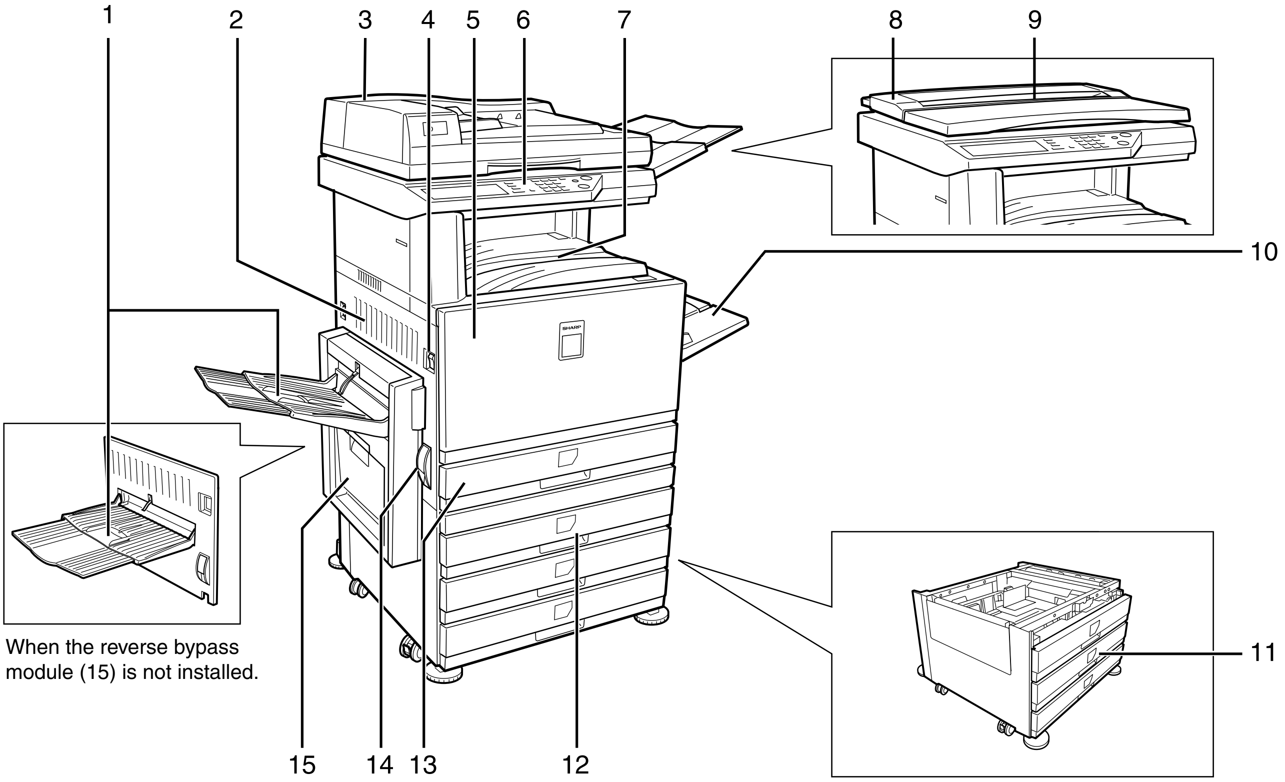
15. Necessary works before moving the machine

1) If the following options are installed, remove all of them from the machine.
   - Sorter
   - Finisher
   - Reverse unit
   - RADF unit
   - Desk unit
2) Remove the following consumable parts from the machine.
   - Paper
   - Toner cartridge
   - Photoconductor cartridge
3) Lock the following sections.
   - Scanner (Optical section)
   - Paper cassette lift plate

[6] EXTERNAL VIEW AND INTERNAL STRUCTURE

1. Name and function of each section

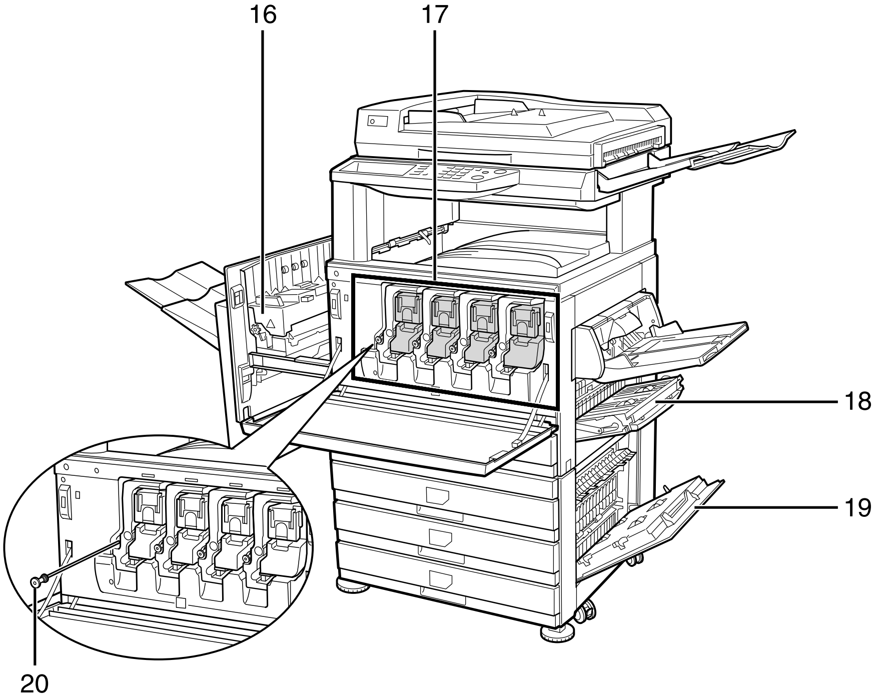
A. External view



When the reverse bypass module (15) is not installed.

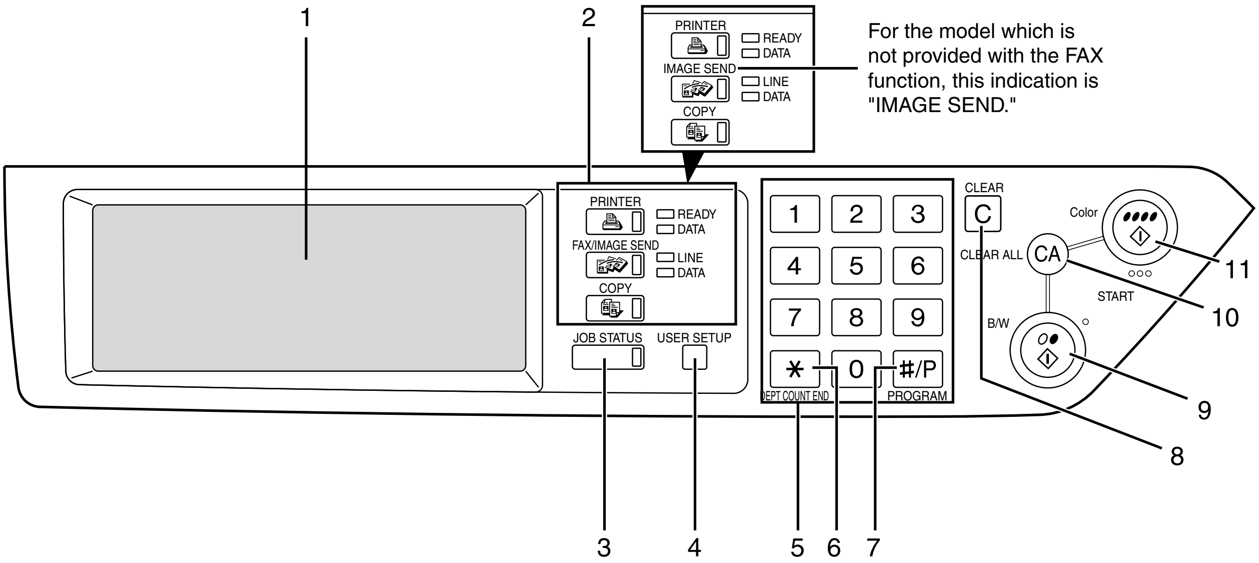
No.	Parts		Model	Note
	Name	Function		
1	Paper exit tray (Left tray)	Receives discharged paper.		
2	Left side cover	Opened to process a paper jam in the fusing unit or the transfer unit.		
3	Automatic duplex document feeder	Automatically feeds and transports sheet documents to be scanned. Supports duplex documents and scans the back surface as well as the front surface of a document. (Option)		
4	Main switch	Turns on/off the power source.		
5	Front cover	Opened to replace the toner cartridge.		
6	Operation panel	Performs various functions with the operation keys and the touch panel.		
7	Upper paper exit tray (Center tray)	Receives discharged paper.		
8	Document cover	Presses a document.		
9	Original stacker	Stacks documents.		
10	Manual feed tray	Used for manual paper feed.		
11	3-stage paper feed desk	Provided with the 3-stage trays for paper feed. Each tray holds about 500 sheets of the recommended color paper (80g/m^2 (21 lbs.)) or about 550 sheets of Sharp standard paper (64g/m^2 (17 lbs.)). (Option)		
12	2-stage duplex paper feed desk	Provided with the 2-stage duplex paper feed trays. Each tray holds about 500 sheets of the recommended color paper (80g/m^2 (21 lbs.)) or about 550 sheets of Sharp standard paper (64g/m^2 (17 lbs.)). For duplex paper exit, the reverse bypass module (AR-RB1) (15) is required. (Option)		
13	Tray	Holds about 500 sheets of the recommended color paper (80g/m^2 (21 lbs.)) or about 550 sheets of Sharp standard paper (64g/m^2 (17 lbs.)).		
14	Left side cover open/close knob	Push up this knob to open the left cover.		
15	Reverse bypass module	Reverses paper for automatic duplex paper exit. (Option)		

B. Internal structure



No.	Parts		Model	Note
	Name	Function		
16	Fusing section	Fuses transferred images on paper.		Note: Since the fusing section is heated to a high temperature, be careful not to burn your hands when processing a paper jam.
17	Toner cartridges	Toner is in this cartridge. When toner is empty, replace the empty cartridge with a new one.		
18	Right side cover	Opened to process a paper jam in the paper feed section.		
19	Paper feed desk right cover	Opened to process a paper jam in a peripheral unit.		
20	Cleaning lever	Use this level to clean the charger. Provided for each toner cartridge.		

C. Operation panel


1
2
PRINTER
READY
DATA
IMAGE SEND
LINE
DATA
COPY
For the model which is not provided with the FAX function, this indication is "IMAGE SEND."
PRINTER
READY
DATA
FAX/IMAGE SEND
LINE
DATA
COPY
JOB STATUS
USER SETUP
1
2
3
4
5
6
7
8
9
0
#/P
DEPT COUNT END
PROGRAM
CLEAR
C
CLEAR ALL
CA
Color
START
B/W
11
10
9
8
3
4
5
6
7

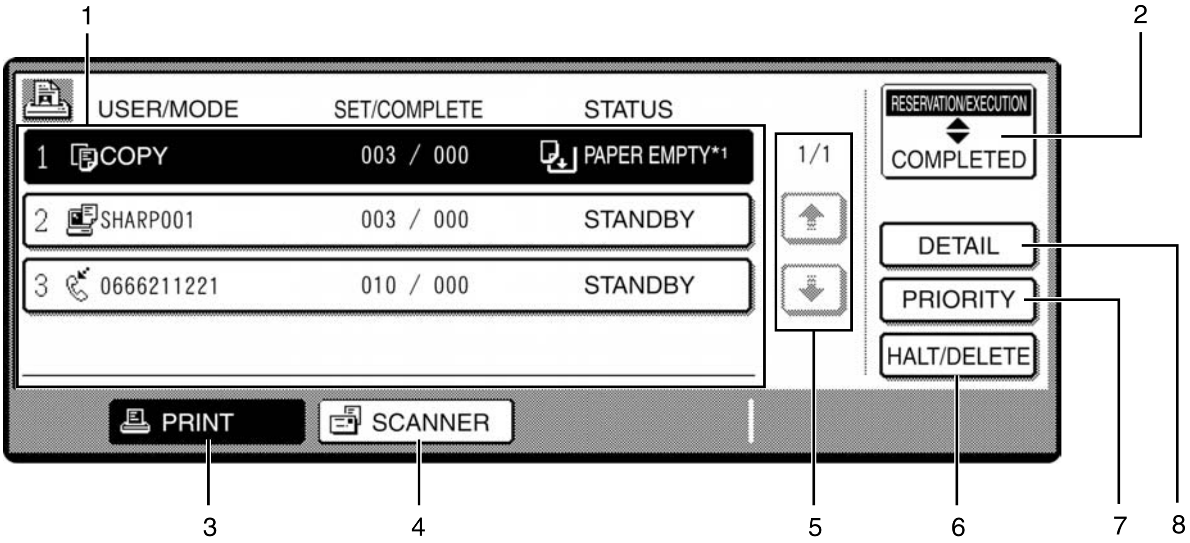
No.	Parts		Model	Note
	Name	Function		
1	Touch panel	Displays messages and keys. The display key can be directly touched to be operated. Provides selection of PRINTER/COPY/ NETWORK SCANNER/FAX mode.		
2	Mode select key/ Display lamp [PRINTER] key READY lamp DATA lamp [FAX/IMAGE SEND] key *1 Communication lamp Data lamp	Switches the display mode of the touch panel. [PRINTER] key: Set to the printer mode. • READY lamp: ON when reception of print data is allowed. • DATA lamp: On or flashing during printing or receiving print data. Switches the network scanner (when expanded)/ FAX mode (AR-C250F only).		
	[COPY] key	Switches to the copy mode.		
3	[JOB STATUS] key	Displays the current job status.		
4	[USER SETUP] key	Used to adjust contrast of the touch panel and set the key operator program.		
5	10-key pad	Used to input figures for various setups.		
6	[⁎] key ([DEPT COUNT END] key)	Used in the copy function and the FAX function.		
7	[#/P] key ([PROGRAM] key)	Used when dialing in the copy function and the FAX function.		
8	[C] key (Clear key)	Used in the copy function and the FAX function.		
9	B/W [START] key	Used during outputting B/W copy in the copy function, during scanning B/W images in the network scanner function, and during scanning a send document in the FAX function.		
10	[CA] key ([ALL CANCEL] key)	Used in the copy function and the FAX function.		
11	Color [START] key	Used during outputting a full-color or single-color copy in the copy function and during scanning color images in the network scanner function.		

*1: For the AR-C250S, [IMAGE SEND] key.

D. Job status display

The job status display is shown by pressing the [JOB STATUS] key on the operation panel.

The list of jobs which are reserved, being executed, or completed is displayed to allow checking the job contents or to delete (terminate) jobs.

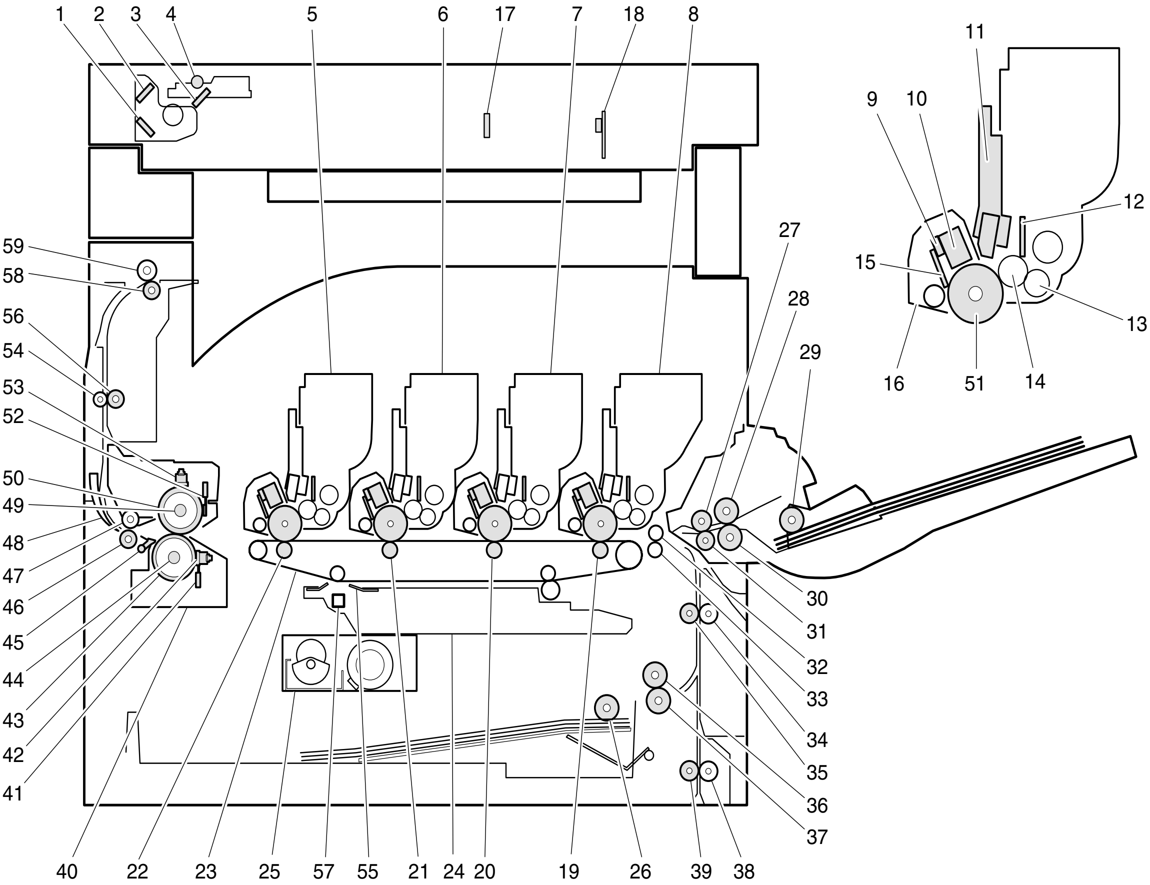


USER/MODE	SET/COMPLETE	STATUS
1 COPY	003 / 000	PAPER EMPTY*1
2 SHARP001	003 / 000	STANDBY
3 0666211221	010 / 000	STANDBY

∗ The above example shows the job list of reservation and execution.

No.	Display of inside of touch panel		Model	Note
	Name	Function		
1	Job list	Displays the list of reservation and execution. Tough the key (3), (4) or (5) to select the mode and display the job list. The icon in front of each job name indicates the job mode. Copy mode　Printer mode Network scanner mode FAX mode (Send job)　FAX mode (Receive job) When the job list of reservation and execution is displayed, each job on the list serves as a key. To terminate the output, touch the job key to select the job and press [HALT/DELETE] key (6) ([PRIORITY] key (7)).		∗ Paper empty of status display If the status display is in paper empty, the specified size paper is exhausted. (Need to be supplied.) To print on another size paper already set, touch and select the job and touch the detail key (8) to change the size.
2	Mode select key	This key is displayed only in the job status display in the FAX mode, and is used to switch the job list display to the [RESERVATION/EXECUTION] job or the [COMPLETED] job. [RESERVATION/EXECUTION] job: Displays the list of reserved or executing jobs. [COMPLETED] job: Displays the list of completed jobs.		
3	[PRINT] key	Displays the list of the output jobs in all the modes (printer, copy, and FAX).		
4	[SCANNER] key	Displays only the jobs of the network scanner function. ∗ When the network scanner function is optionally expanded.		
5	Display select key	Switches the page of displayed job list.		
6	[HALT/DELETE] key	Halts or deletes a job which is being executed or a reserved job. ∗ Halt/delete during execution cannot be made.		
7	[PRIORITY] key	This key is valid only in the job status display in the FAX mode. Touch and select the reserved FAX job to set the highest priority on the job.		
8	[DETAIL] key	This key is displayed only on the job status display in the print mode. It is valid only for a print job from PC. The details of the selected job are displayed. Also used to change the specified output paper.		

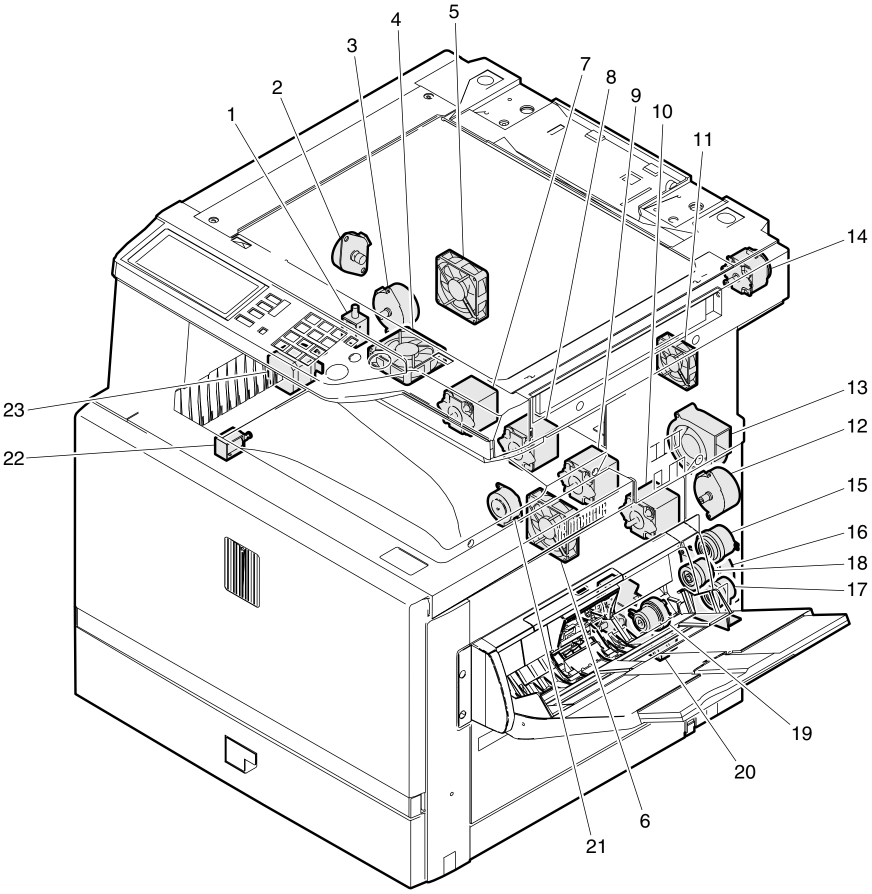
E. Cross section



No.	Parts		Model	Note
	Name	Function		
1	No. 3 mirror	Leads a document image to the CCD.		
2	No. 2 mirror	Leads a document image to No. 3 mirror.		
3	No. 1 mirror	Leads a document image to No. 2 mirror.		
4	Scanner lamp	Radiates light on a document for the CCD to scan the document image.		
5	Yellow toner cartridge	Attaches yellow toner to electrostatic latent images on the photoconductor.		
6	Magenta toner cartridge	Attaches magenta toner to electrostatic latent images on the photoconductor.		
7	Cyan toner cartridge	Attaches cyan toner to electrostatic latent images on the photoconductor.		
8	Black toner cartridge	Attaches black toner to electrostatic latent images on the photoconductor.		
9	Discharge lamp	Discharges the photoconductor.		
10	Main charger unit	Charges the magenta photoconductor negatively.		
11	LED unit	Converts the color component image signal sent from the ICU PWB into LED light, and radiate it to the OPC drum.		
12	Doctor blade	Regulates the toner quantity on the developing roller.		
13	Supply roller	Supplies toner to the developing roller.		
14	Developing roller	Attaches toner to the photoconductor.		
15	Cleaning blade	Cleans residual toner from the photoconductor.		
16	OPC drum unit	Forms electro-static latent images.		
17	CCD lens	Reduces document images (light) and projects it to the CCD.		
18	CCD PWB	Reads document images (photo signals) and converts them into electrical signals.		
19	Transfer roller (K)	Applies the transfer voltage to the transfer belt.		
20	Transfer roller (C)	Applies the transfer voltage to the transfer belt.		
21	Transfer roller (M)	Applies the transfer voltage to the transfer belt.		
22	Transfer roller (Y)	Applies the transfer voltage to the transfer belt.		

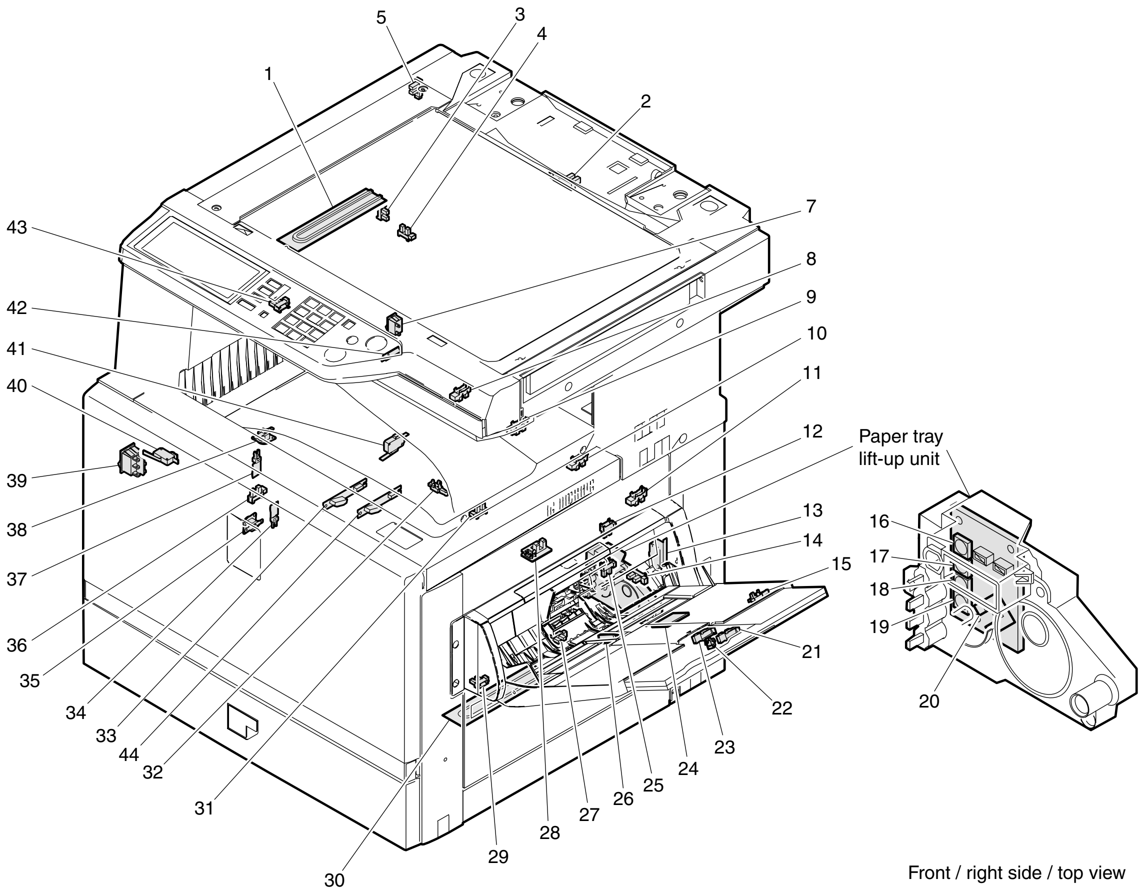
No.	Parts		Model	Note
	Name	Function		
23	Transfer belt	Transfers toner images of the photoconductor onto paper.		
24	Waste toner box (Transfer section)	Collects waste toner on the transfer belt.		
25	Lift-up unit	Lifts the transfer belt.		
26	Paper pickup roller (No. 1 tray)	Sends paper to the paper feed roller.		
27	Idle roller	Applies a pressure to paper and the transport roller to provide transport power of the transport roller to paper.		
28	Manual paper feed roller	Feed paper to the paper transport section.		
29	Paper pickup roller	Sends paper to the paper feed roller.		Manual paper feed section
30	Separation roller	Separates paper to prevent double feed.		
31	Manual paper transport roller	Transports paper to the resist roller.		
32	Upper resist roller	Transports paper to the transfer section.		
33	Lower resist roller	Transports paper to the transfer section.		
34	Idle roller	Prevents paper skew.		
35	Paper transport roller 1	Transports paper to the resist roller.		
36	Paper feed roller (No. 1 tray)	Feed paper to the paper transport section.		
37	Separation roller (No. 1 tray)	Separates paper to prevent double feed.		
38	Idle roller	Applies a pressure to paper and the transport roller to provide transport power of the transport roller to paper.		
39	Paper transport roller 2	Transports paper to the transport roller 1.		
40	Fusing unit	Fuses toner on paper.		
41	Lower heat roller thermistor	Detects the temperature on the fuser roller surface.		
42	Lower heat roller thermostat	Detects an abnormally high temperature and turns off the heater lamp.		
43	Lower heat roller	Heats and presses toner on paper to fuse toner on paper.		
44	Lower heater lamp	Heats the lower fuser roller.		
45	Lower separation pawl	Mechanically separates paper which was not separated naturally from the lower heat roller.		
46	Fusing transport roller	Transports paper after fusing.		
47	Idle roller	Applies a pressure to paper and the transport roller to provide transport power of the transport roller to paper.		
48	Gate	Switches the paper exit path. (face up, face down)		
49	Upper heater lamp	Heats the heat roller.		
50	Upper heat roller	Heats and presses toner on paper to fuse toner on paper.		
51	OPC drum	Forms latent static electrostatic images with LED light.		
52	Upper heat roller thermistor	Detects the temperature on the heat roller surface.		
53	Upper heat roller thermostat	Detects an abnormally high temperature and turns off the heater lamp.		
54	Idle roller	Applies a pressure to paper and the transport roller to provide transport power of the transport roller to paper.		
55	Transfer belt cleaning blade	Cleans toner on the transfer belt.		
56	Paper transport roller 3	Transport paper to the paper exit roller.		
57	Belt waste toner transport shaft	Transports waste toner on the transfer belt to the waste toner box.		
58	Paper exit roller	Discharges paper to outside of the machine.		
59	Idle roller	Applies a pressure to paper and the transport roller to provide transport power of the transport roller to paper.		

F. Motors, clutches, solenoids, fans



No.	Parts		Code, signal name	Type
	Name	Function		
1	Exit select gate solenoid	Drives the exit path select gate.	GSS	Electromagnetic solenoid
2	Offset motor (Slide motor)	Drives the paper exit offset.	OSM	Stepping motor
3	Fusing drive motor	Drives the fusing unit.	FUSM	Stepping motor
4	Exhaust fan motor 1	Exhaust and cools the fusing section.	VFMP	DC motor
5	Exhaust fan motor 2	Exhaust and cools the fusing section.	VFMS	DC motor
6	Power unit cooling fan motor	Cools the power unit.	PSFM	DC motor
7	Drum motor (Y)	Drives the yellow photoconductor unit.	DM_Y	Stepping motor
8	Drum motor (M)	Drives the magenta photoconductor unit.	DM_M	Stepping motor
9	Drum motor (C)	Drives the cyan photoconductor unit.	DM_C	Stepping motor
10	Drum motor (K)	Drives the black photoconductor unit.	DM_K	Stepping motor
11	Printer controller cooling fan motor	Cools the printer controller.		
12	PS motor	Drives and turns ON/OFF the resist roller.	PSM	Stepping motor
13	Process cooling fan motor	Exhaust and cools the process section.	PCFM	DC motor
14	Scanner motor	Drives the scanner unit.	SM	Stepping motor
15	PS front clutch	Transmits power of the paper feed motor to the manual paper feed unit. (Controls ON/OFF.)	MTRC	Electromagnetic clutch
16	Paper feed motor	Drives the paper feed section and the paper transport section.	PFM	DC servo motor
17	Paper feed clutch	Transmits power of the paper feed motor to each transport roller. (Controls ON/OFF.)	TRC	Electromagnetic clutch
18	Manual paper feed clutch	Controls ON/OFF of the manual paper feed roller. Presses the paper pickup roller to paper.	MPFC	Electromagnetic clutch
19	Paper feed drive clutch	Controls ON/OFF of the paper feed roller.	CPFC1	Electromagnetic clutch
20	No. 1 cassette lift-up motor	Drives the lift plate.	LUM1	Synchronous motor
21	Belt lift-up motor	Lifts the transfer belt unit.	BLUM	Stepping motor
22	Calibration plate open/ close solenoid	Switches the image density sensor.	CALS	Electromagnetic solenoid
23	Transfer belt motor	Drives the transfer belt.	BTM	Stepping motor

G. Sensors, switches and heaters

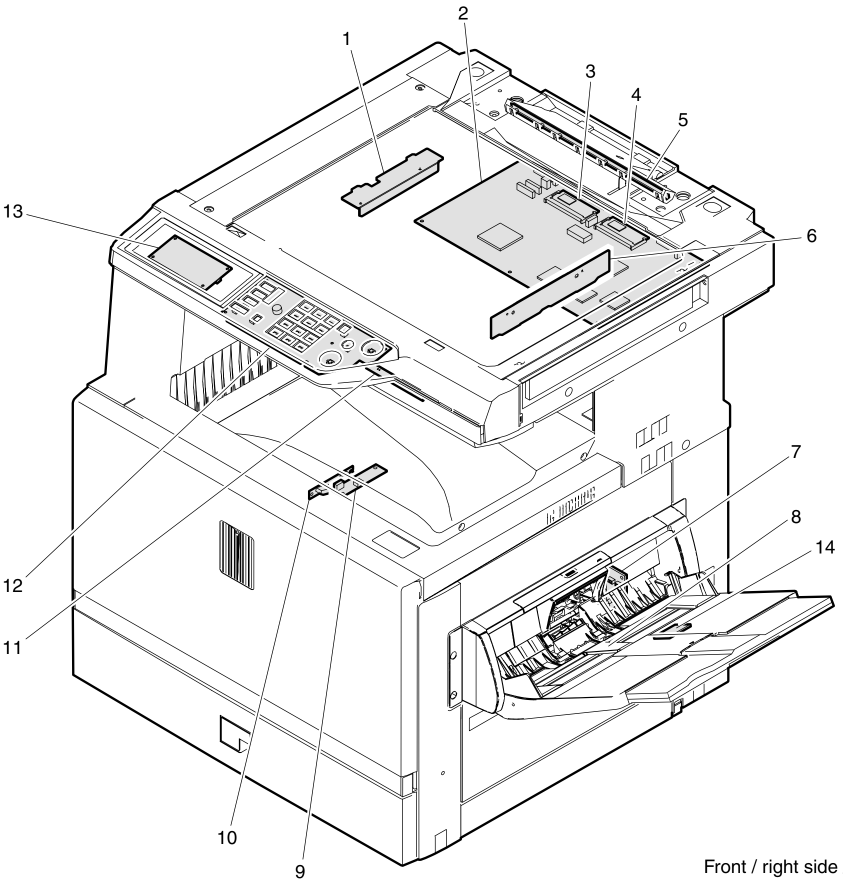


Front / right side / top view

No.	Parts		Code, signal name	Type
	Name	Function		
1	Dehumidifier heater	Dehumidifies the scanner section.	DH (Japan only)	
2	O/C open/close sensor	Detects open/close of the document cover. (A timing signal of document size detection is produced.)	OCSW	Photo sensor (Photo transmission)
3	Offset home position sensor	Detects the offset home position.	HPOS	Photo sensor (Photo transmission)
4	Paper exit tray full detection	Detects full of the face down paper exit tray.	TFD2	Photo sensor (Photo transmission)
5	Mirror home position sensor	Detects the scanner home position.	MHPS	Photo sensor (Photo transmission)
7	Dehumidifier heater switch	Turns ON/OFF the dehumidifier heater installed in the scanner (reading) section and the paper feed section.	DHSW (Japan only)	—
8	Toner empty sensor (Y)	Detects toner empty (Y).	TES_Y	Photo sensor (Photo transmission)
9	Toner empty sensor (M)	Detects toner empty (M).	TES_M	Photo sensor (Photo transmission)
10	Toner empty sensor (C)	Detects toner empty (C).	TES_C	Photo sensor (Photo transmission)
11	Toner empty sensor (K)	Detects toner empty (K).	TES_K	Photo sensor (Photo transmission)
12	No. 1 paper transport sensor	Detects paper in front of the resist roller.	PPD1	Photo sensor (Photo transmission)
13	Paper feed door open detection	Detects open/close of the paper feed door.	DSWR	Micro switch
14	Manual feed paper empty detection	Detects paper empty on the paper tray.	MPED	Photo sensor (Photo transmission)
15	Manual feed tray pulling out detection 2	Detects the paper tray position.	MTOP2	Contact switch
16	No. 1 cassette paper size detection 1	Detects the paper size set by the paper size set blocks.	C1SS1	Contact switch
17	No. 1 cassette paper size detection 2	Detects the paper size set by the paper size set blocks.	C1SS2	Contact switch
18	No. 1 cassette paper size detection 3	Detects the paper size set by the paper size set blocks.	C1SS3	Contact switch
19	No. 1 cassette paper size detection 4	Detects the paper size set by the paper size set blocks.	C1SS4	Contact switch
20	No. 1 cassette lift-up position detection 1	Detects the lift plate position. (Detects the paper quantity.)	C1PD1	Photo sensor (Photo transmission)
21	Manual feed paper length detection 2	Detects the paper length.	MPLD2	Photo sensor (Photo transmission)
22	Manual feed tray pulling out detection 1	Detects the paper tray position.	MTOP1	Contact switch

No.	Parts		Code, signal name	Type
	Name	Function		
23	Manual feed paper length detection 1	Detects the paper length.	MPLD1	Photo sensor (Photo transmission)
24	Humidity sensor	Detects the ambient humidity.	HUD	—
25	No. 1 cassette paper feed detection	Detects paper exit from No. 1 paper tray.	PFD1	Photo sensor (Photo transmission)
26	Manual feed paper width detection	Detects the paper width.	MPWS	Volume (Variable resistor)
27	No. 1 cassette lift-up upper limit detection	Detects the upper limit position of paper.	LUD1	Photo sensor (Photo transmission)
28	PS front sensor	Detects paper in front of PS.	PPD2	Photo sensor (Photo transmission)
29	No. 1 cassette paper empty detection	Detects paper empty on the paper tray.	PED1	Photo sensor (Photo transmission)
30	Dehumidifier heater	Dehumidifier hater for the main body cassette. (Japan only)	DH	—
31	Belt lift-up upper limit detection	Detects lift-up or lift-down of the transfer belt.	BLUD	Photo sensor (Photo transmission)
32	Belt waste toner full detection	Detects belt waste toner full.	BTNF	Contact switch
33	Color toner concentration (process control) sensor/Auto image Reg.	Detects the toner patch density (color toner) in image density correction operation. 2-sensors on PWB.	PCS_C	Photo sensor (Photo transmission)
34	Lower heat roller thermistor	Detects the temperature on the heat roller surface.	THSD	Thermistor
35	Lower heat roller thermostat	Detects an abnormally high temperature and turns off the heater lamp.	HLTS2	Thermostat Thermal switch
36	Machine paper exit sensor 1	Detects discharged paper.	POD1	Photo sensor (Photo transmission)
37	Upper heat roller thermistor	Detects the temperature on the heat roller surface.	THSU	Thermistor
38	Upper heat roller thermostat	Detects an abnormally high temperature and turns off the heater lamp.	HLTS1	Thermostat Thermal switch
39	Main switch	Turns ON/OFF the main power.	MSW	Seesaw switch
40	Front door open detection	Detects open/close of the front door.	DSWF	Micro switch
41	Paper exit door open detection	Detects open/close of the paper exit door.	DSWL	Micro switch
42	Face-up paper exit tray full detection	Detects full of the face-up paper exit tray.	TFD	Photo sensor (Photo transmission)
43	Machine paper exit sensor 2	Detects discharged paper.	POD2	Photo sensor (Photo transmission)
44	Black toner concentration sensor	Detects black patch density for toner concentration	PCS_B	—

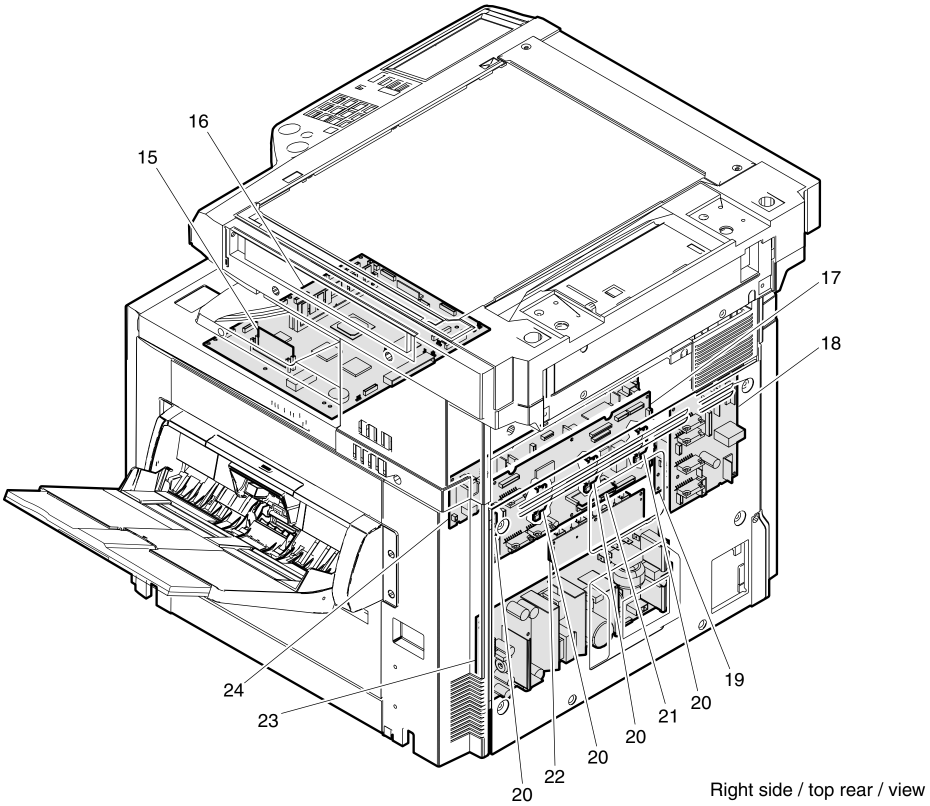
H. PWB 1



Front / right side / top view

No.	Parts		Code, signal name	Type
	Name	Function		
1	CL inverter PWB	Drives the xenon lamp.		
2	MFP PWB	Corrects images from the CCD and controls the operation panel.		
3	Flash PWB (OP)	Includes the program to drive the OP PWB.		
4	Flash PWB (MFP)	Includes the program to drive the MFP PWB.		
5	Document detection LED PWB	Emits light for document size detection.		
6	CCD PWB	Converts document images into electric signals.		
7	Lift-up unit PWB tray	Detects the cassette size and interfaces the cassette lift-up motor signals.		
8	Manual feed VR PWB	Outputs manual feed width signals.		
9	Process control PWB (for black)	Outputs the black toner density on the transfer belt.		
10	Process control PB (for color)	Outputs the color toner density on the transfer belt.		
11	Document detection light receiving PWB	Outputs the document size detection signal.		
12	Operation PWB	Outputs the key operation signal.		
13	INV/LVDS PWB	Interfaces LCD from the MFPPWB and the touch panel signal, and drives the LCD backlight.		
14	Temp sensor PWB	Temp/humidity sensor readings.		

H. PWB2

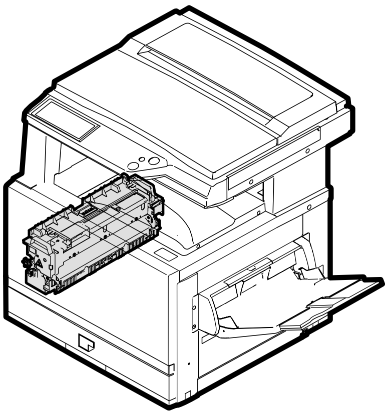


Right side / top rear / view

No.	Parts		Code, signal name	Type
	Name	Function		
15	Flash PWB (ICU)	Includes the program to drive the ICU PWB.		
16	ICU PWB	Performs image process and controls LED.		
17	PCU PWB	Controls the engine section.		
18	Driver PWB	Controls the DC load power and drive the motor.		
19	AC power PWB	Controls the power on the primary side.		
20	LED DL PWBs	Discharges electric charges on the OPC drums.		
21	Flash PWB (PCU)	Includes the program to drive the PCU PWB.		
22	High voltage TC PWB	Produces the transfer voltage.		
23	DC power PWB	Outputs the voltage on the secondary side, and controls the heater lamp.		
24	High voltage MC PWB	Produces a high voltage for the main charger and the developing bias voltage.		

[7] DESCRIPTIONS OF EACH SECTION

1. Fusing section



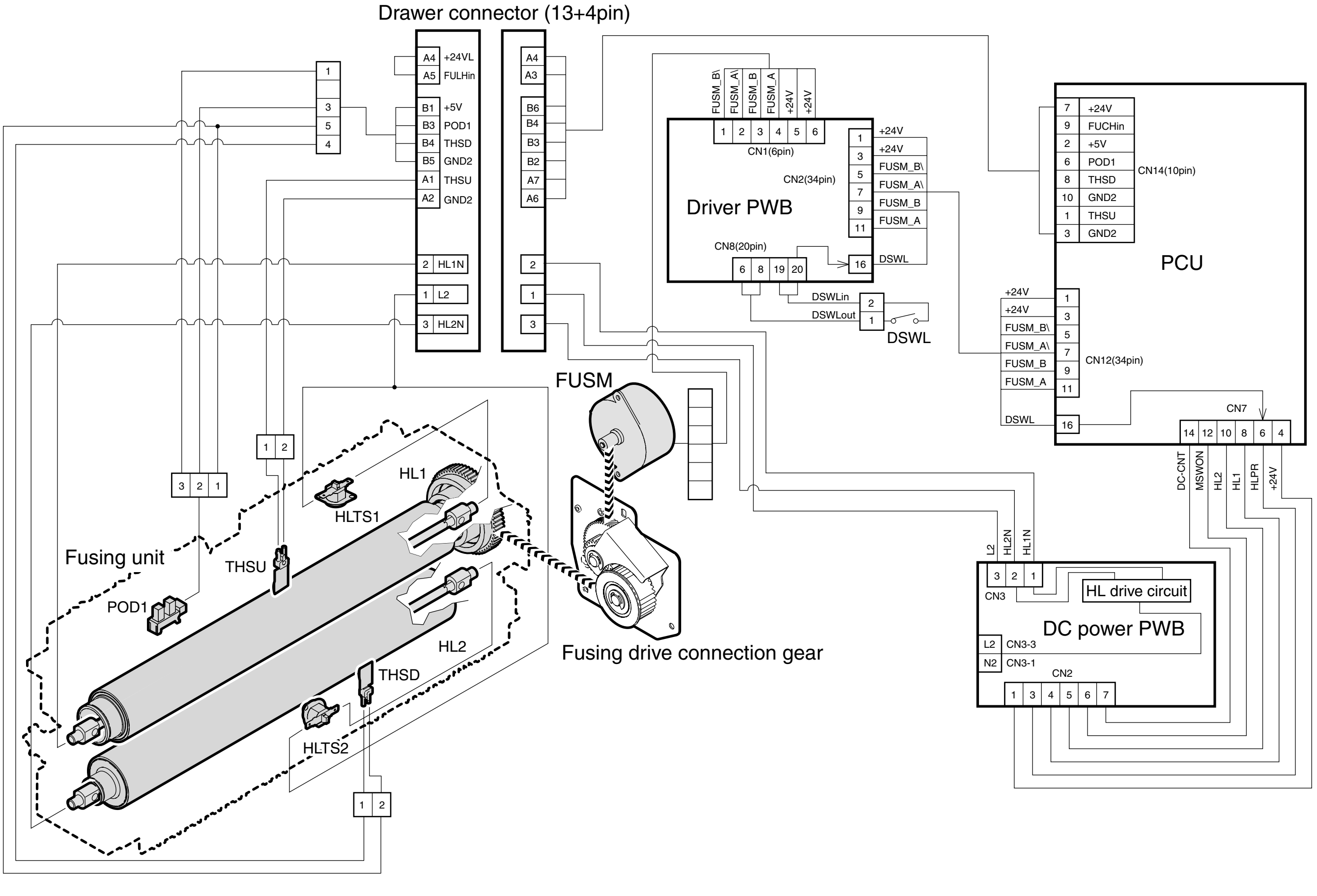
A. Operational descriptions

(1) Outline

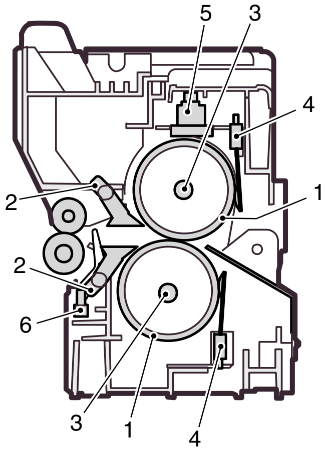
This section performs the following function and operation.

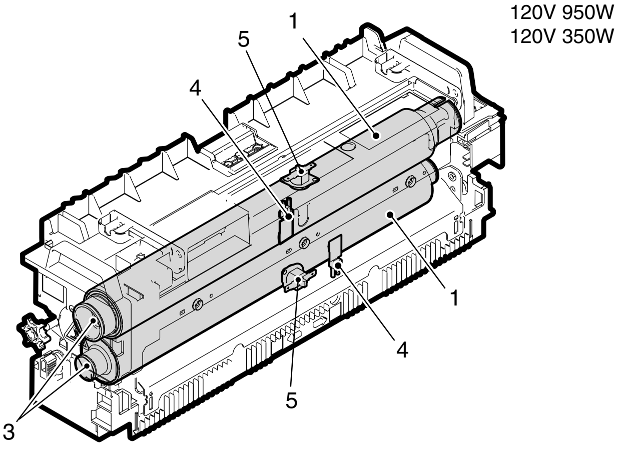
1) Toner attached to paper in the transport section is fused onto paper by heat and pressure of the heat roller.

(2) Electrical section


Drawer connector (13+4pin)
A4 +24VL
A5 FULHin
B1 +5V
B3 POD1
B4 THSD
B5 GND2
A1 THSU
A2 GND2
2 HL1N
1 L2
3 HL2N
A4
A3
B6
B4
B3
B2
A7
A6
2
1
3
1
3
5
4
FUSM_B\
FUSM_A\
FUSM_B
FUSM_A
+24V
+24V
1 2 3 4 5 6
CN1(6pin)
CN2(34pin)
Driver PWB
1 +24V
3 +24V
5 FUSM_B\
7 FUSM_A\
9 FUSM_B
11 FUSM_A
CN8(20pin)
6 8 19 20
16 DSWL
DSWLin
DSWLout
2
1
DSWL
7 +24V
9 FUCHin
2 +5V
6 POD1
8 THSD
10 GND2
1 THSU
3 GND2
CN14(10pin)
PCU
+24V
+24V
FUSM_B\
FUSM_A\
FUSM_B
FUSM_A
DSWL
1 3 5 7 9 11 16
CN12(34pin)
CN7
14 12 10 8 6 4
DC-CNT
MSWON
HL2
HL1
HLPR
+24V
FUSM
L2
HL2N
HL1N
3 2 1
CN3
HL drive circuit
DC power PWB
L2 CN3-3
N2 CN3-1
CN2
1 3 4 5 6 7
Fusing drive connection gear
1 2
3 2 1
HL1
HLTS1
Fusing unit
THSU
POD1
HL2
THSD
HLTS2
1 2

(3) Major parts/signals functions and operations





No.	Name	Code, Signal name	Function
1	Heat roller	—	Heats and presses toner to fuse it on paper. Silicon rubber rollers are used as the upper and the lower heat rollers. Teflon tube is wound around the upper heat roller.
2	Upper/lower separation pawls	—	Mechanically separate paper from the heat roller, which was not separated naturally.
3	Heater lamp	Upper: HL1, Lower: HL2	Heats the heat rollers.
4	Thermistor	Upper: THSU, Lower: THSD	Detects the surface temperature of the heat roller. (Keeps the roller surface temperature at a constant level.)
5	Thermostat	Upper: HLTS1, Lower: HLTS2	Cuts conduction of the heater lamp when an abnormally high temperature is detected.
6	Paper exit sensor	POD1	Detects paper discharged from the fusing section.
RW	Control signal	FUSM_A, A', B, B'	Drives the fusing section.
RW	Control signal	FUCHin	Fusing unit installation detecting signal
RW	Control signal	DSWL	Left cabinet open/close detection signal
RW	Control signal	HLPR	Heater lamp power relay (in the DC power PWB) drive signal

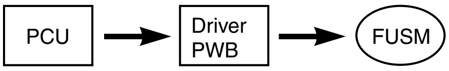
RW: Abbreviation of Related Wiring, which means the said load is specified in the related figure of the mechanical and the electrical sections.

(4) Operational descriptions

a. Fusing unit drive

To drive the fusing unit, drive power is transmitted from the drive motor (FUSM) through the connection gear to the upper heat roller gear.

The drive motor (stepping motor) is driven by the motor drive IC in the driver PWB according to the control signal sent from the PCU.



b. Heater lamp drive

The surface temperature detected by the thermistor is sent to the PCU. When the temperature is lower than the specified level, the PCU sends the heater lamp lighting signal to the heater lamp drive circuit in the DC power PWB.

The triac in the heater lamp drive circuit is turned on to apply AC power to the heater lamp, which turns on to heat the heat rollers.

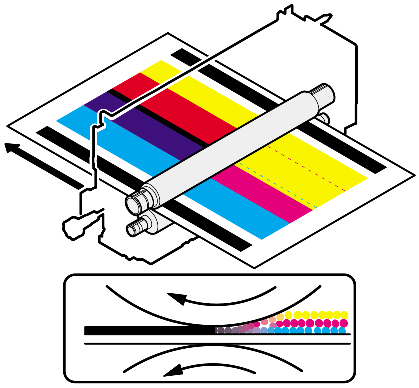
The thermostats are provided as a safety measure to prevent against an abnormally high temperature of the heat rollers.

When the thermostat is opened, the power supply (AC neutral) to the heater lamp is cut off.

c. Fusing operation

Color toner of YMCK on paper is heated and pressed by the heat rollers to be fused on paper.

At that time, color toner of YMCK is mixed to reproduce nearly actual colors of document images.



The upper and the lower heat rollers are provided to heat from above and below. This is because it is necessary to heat four layers of toner from above and below and right and left to fuse it on paper.

The upper and lower heat rollers are of silicon rubber. This is because of the following reasons:

1) To provide a greater nip quantity and a higher heating capacity for paper.
2) The soft, flexible rollers press multi-layer toner without deformation to fuse on paper.
3) An even pressure is applied to an uneven surface of multi-layer toner.

d. Fusing temperature control

The temperature sensor is provided at the center of the upper and the lower heat rollers.

The temperature sensor at the center detects the heat roller temperature and controls the heater lamp to keep the fusing temperature at the specified level.

The fusing temperature is switched according to the machine condition and paper type selected.

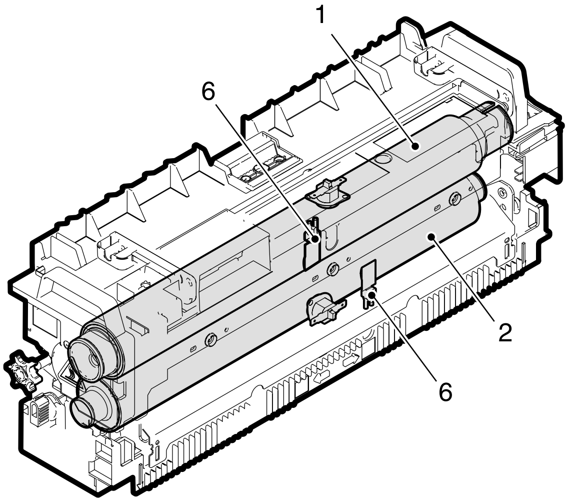
	Upper heat roller		Lower heat roller
Ready state	170°C		120°C
Power save mode	143°C		OFF
Print mode	Normal paper	175°C	140°C
	OHP sheet	170°C	155°C
	Heavy paper 1	175°C	136°C
	Heavy paper 2	175°C	145°C
	Envelope	180°C	145°C

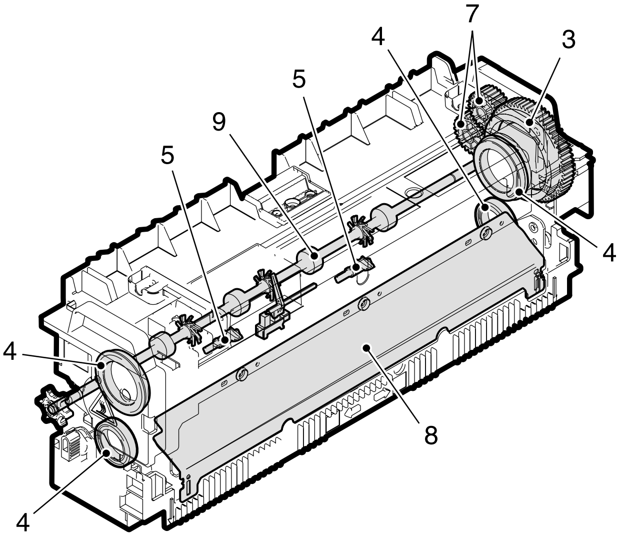
B. Disassembly/Assembly/Maintenance

(1) Fusing section maintenance target parts

×: Check (Clean, replace, or adjust as necessary.) ❍: Clean ▲: Replace △: Adjust ☆: Lubricate ❑: Shift position

Unit name	No.	Part name	When calling	50K	100K	150K	200K	250K	300K	350K	400K	Remark
Fusing section	1	Upper heat roller	×	×	▲	×	▲	×	▲	×	▲	Replace at 100K or within 2 years.
	2	Lower heat roller	×	×	▲	×	▲	×	▲	×	▲	Replace at 100K or within 2 years.
	3	Heat roller gear	×	×	▲	×	▲	×	▲	×	▲	
	4	Heat roller bearing	×	×	▲	×	▲	×	▲	×	▲	
	5	Separation pawl	×	×	▲	×	▲	×	▲	×	▲	
	6	Thermistor	×	×	▲	×	▲	×	▲	×	▲	
	—	Bearings	×	×	×	×	×	×	×	×	×	
	7	Gears	×	☆	☆	☆	☆	☆	☆	☆	☆	
	8	Paper guides	❍	❍	❍	❍	❍	❍	❍	❍	❍	
	9	Paper exit roller	×	×	×	×	×	×	×	×	×	
	—	Fusing unit		×	▲	×	▲	×	▲	×	▲	Replace the unit at 100K or within 2 years.

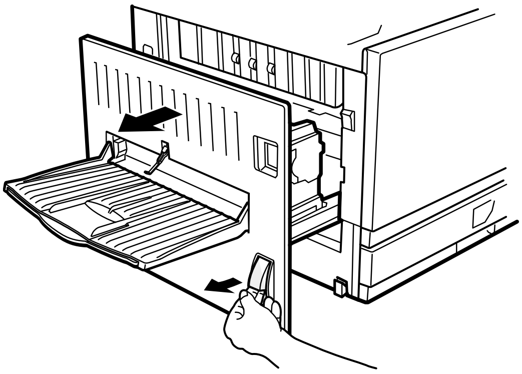




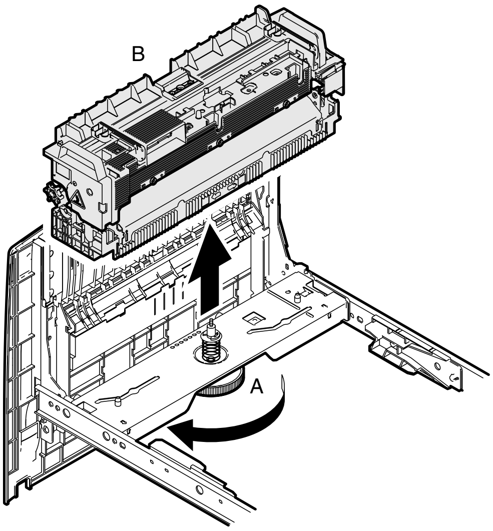
(2) Maintenance parts replacement procedure

a. Fusing unit removal

1) Open the left cabinet.

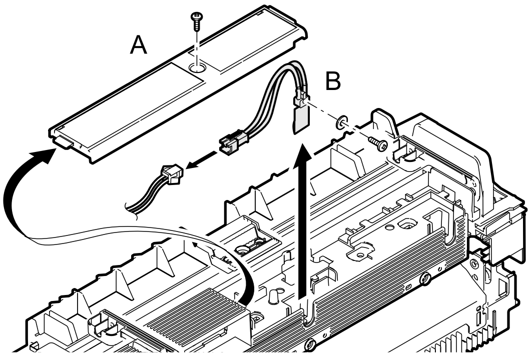


2) Loosen the roller knob (A) and remove the fusing unit (B).



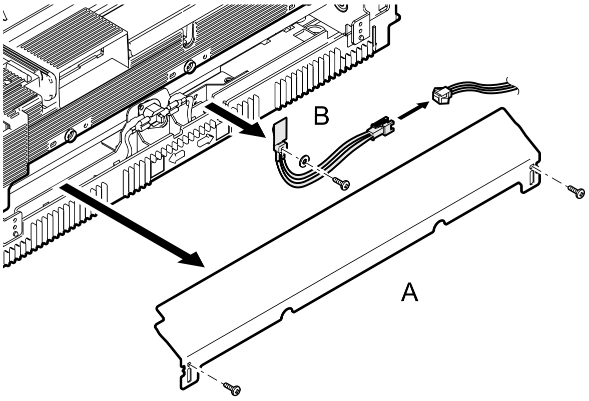
b. Upper thermistor

1) Remove the fusing until from the machine.
2) Remove the screw and the harness cover (A).
3) Remove the connector, the screw, and the harness, and remove the thermistor (B).



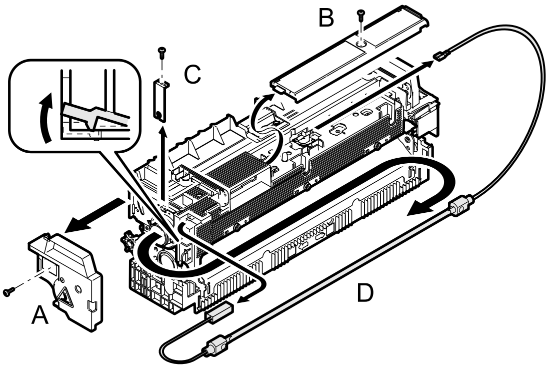
c. Lower thermistor

1) Remove the fusing unit from the machine.
2) Remove the screws, and remove the fusing front PG (A).
3) Remove the connector, the screw, and the harness, and remove the thermistor (B).



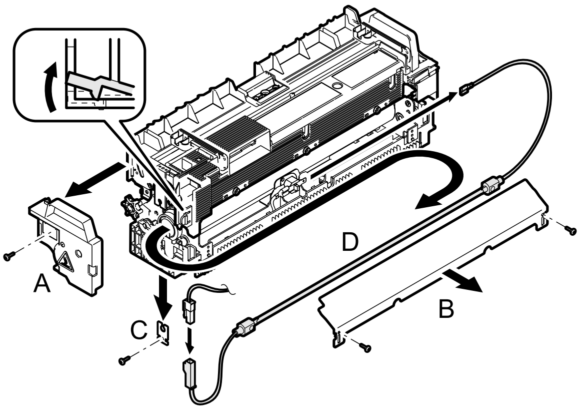
d. Upper heater lamp

1) Remove the fusing unit from the machine.
2) Remove the screw and remove the fusing front cover (A). Remove the harness cover (B).
3) Remove the connector, the screw, and the lamp holder (C), and remove the upper heater lamp.



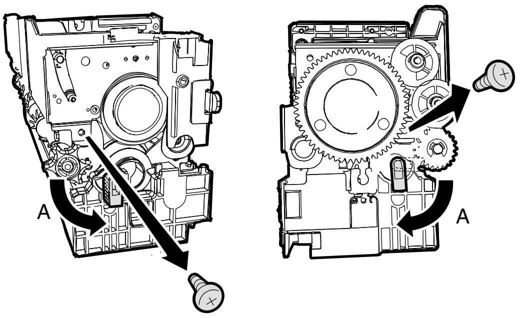
e. Lower heater lamp

1) Remove the fusing unit from the machine.
2) Remove the screw, and remove the fusing front cover (A).
3) Remove the screw, and remove the fusing front PG (B).
4) Remove the connector, the screw, and the lamp holder (C), and remove the lower heater lamp.

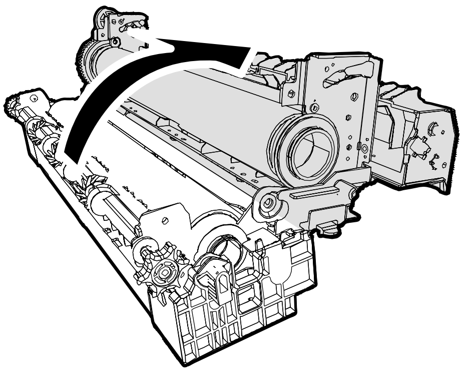


f. Upper heat roller, bearing, gear

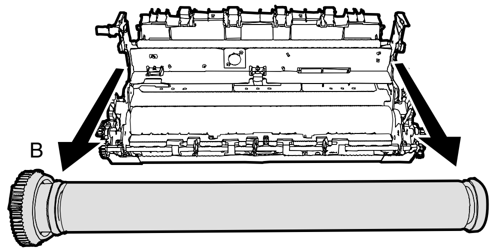
1) Remove the fusing unit from the machine.
2) Remove the lever (A), and release the roller pressure.
3) Remove the screw.



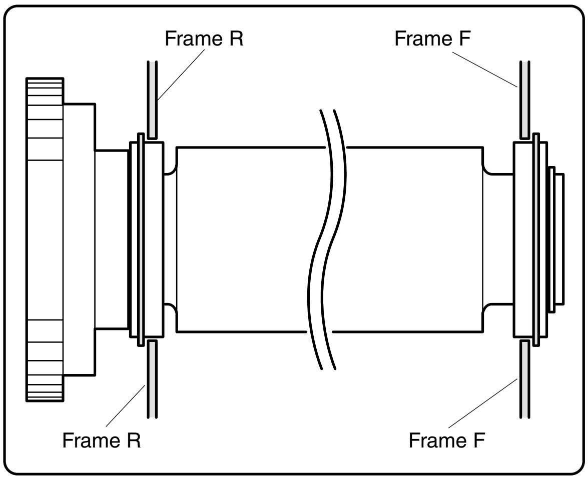
4) Open the upper fusing section.



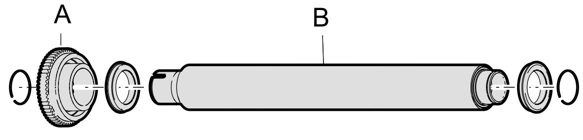
5) Remove the heat roller upper unit (B).



∗ When assembling, put the flanges of the upper bearings outside of the frames F and R.

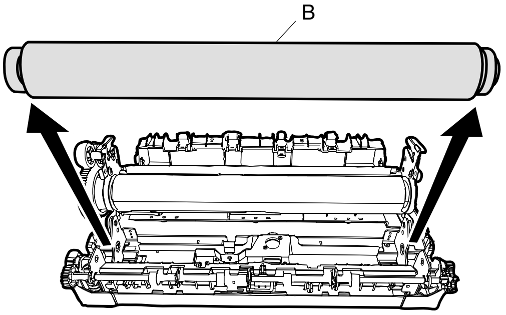


6) Remove the C-ring and the bearing, and remove the gear (A) and the heat roller (B).

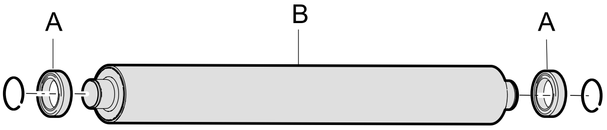


g. Lower heat roller, bearing

1) Remove the fusing unit from the machine.
2) Remove the screw, and open the upper fusing section.
3) Remove the lower heat roller unit (B).

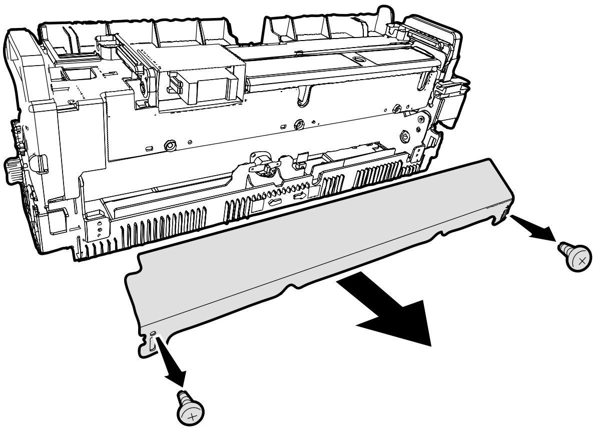


4) Remove the C-ring and the bearing (A), and remove the heat roller (B).



h. Paper guide

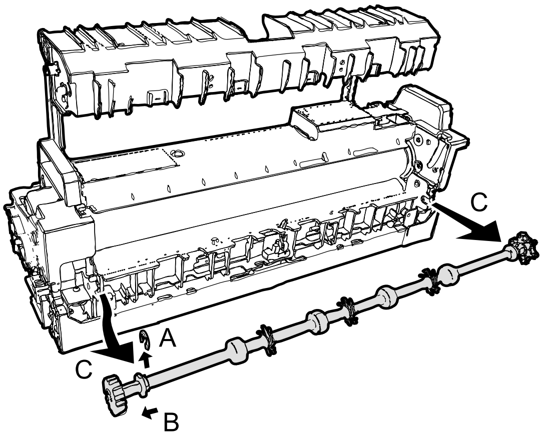
1) Remove the fusing unit from the machine.
2) Remove the screw, and remove the paper guide.



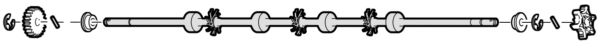
Note: Refer to the adjustment (ADJ13) when installing the paper guide.

i. Paper exit roller

1) Remove the fusing unit from the machine.
2) Open the upper fusing section.
3) Remove the E-ring (A), and shift the bearing (B).
4) Remove the paper exit roller unit (C).

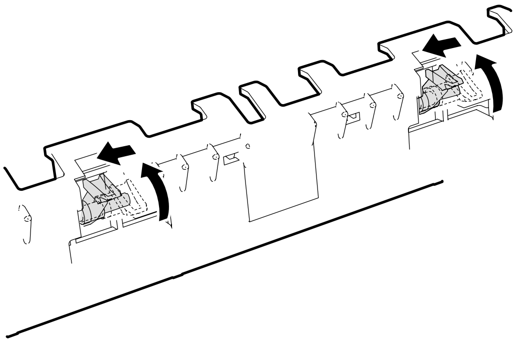


5) Remove the E-ring, the gear, the pin, and the bearing.

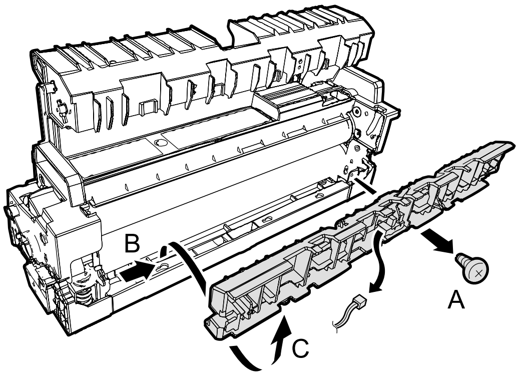


j. Lower separation pawl

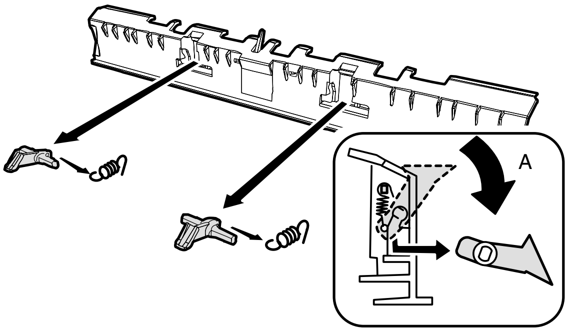
1) Remove the fusing unit from the machine.
2) Open the upper fusing section.
3) Remove the paper exit roller unit.
4) Lift the separation pawl and shift it to the right and lift it from the heat roller.



5) Remove the POD1 connector.
6) Remove the screw, and slide and remove the lower separation pawl mounting plate.

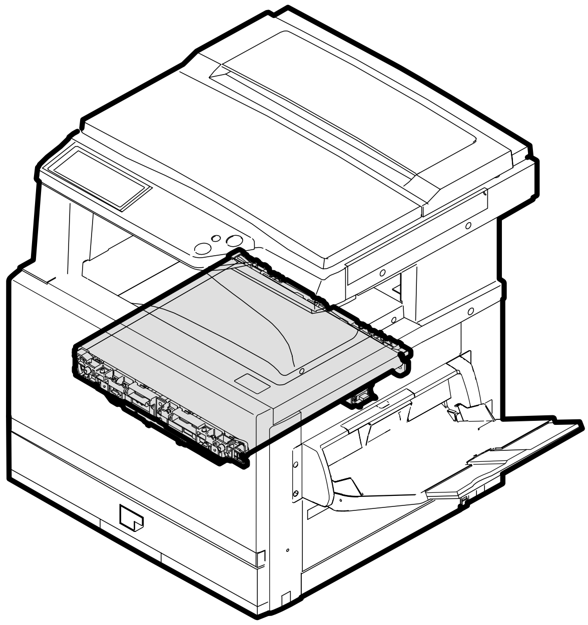


7) Rotate the separation pawl in direction A and remove if from the mounting plate. Remove the spring.



Note: When attaching the separation pawl, check that the separation pawl is in contact with the heat roller.

2. Transfer section



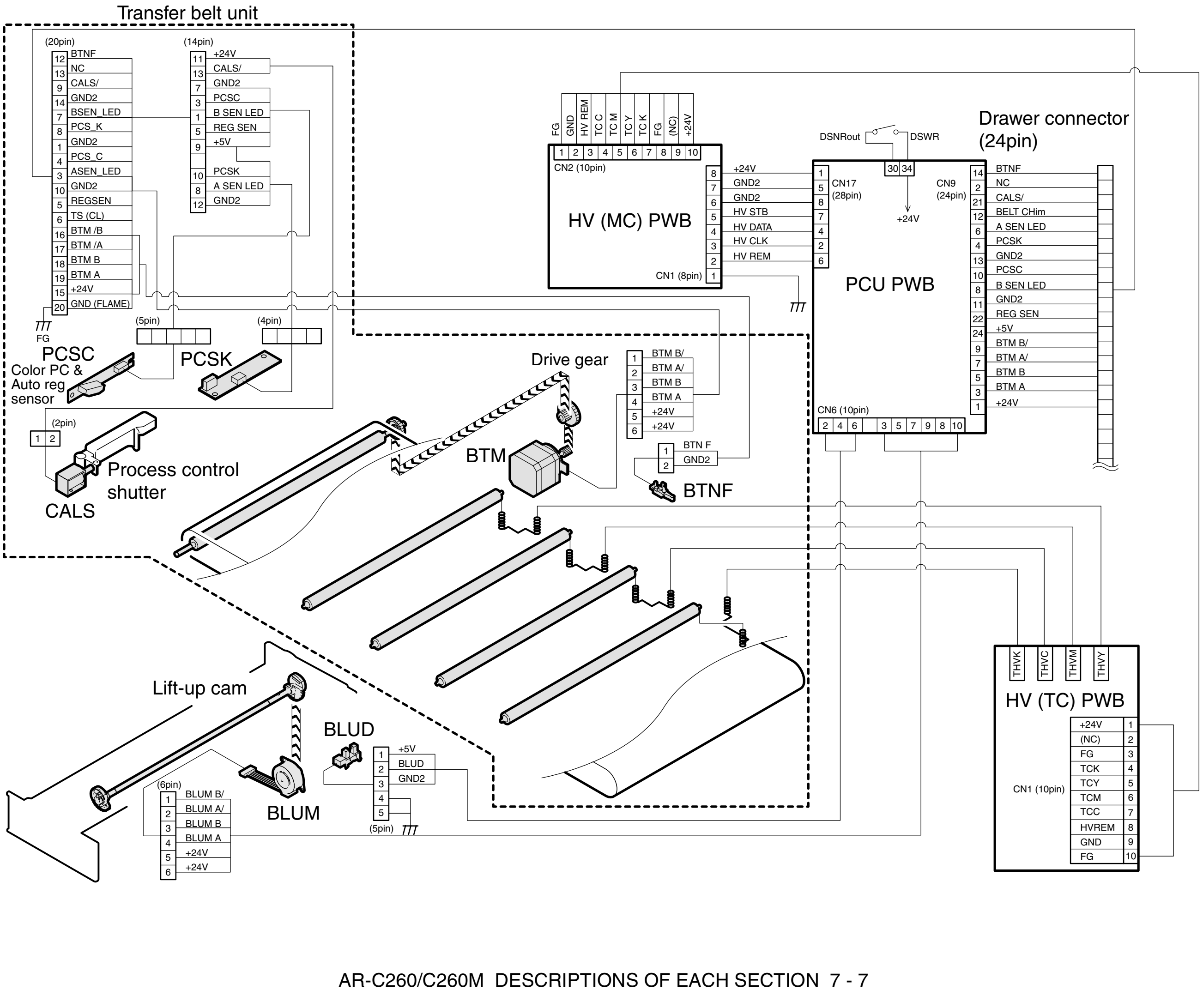
A. Operational descriptions

(1) Outline

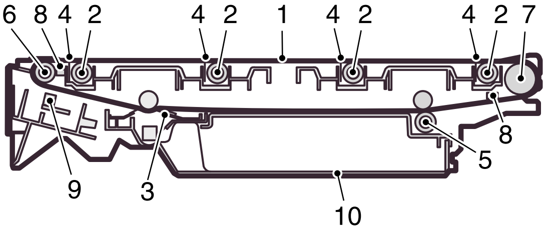
This section functions and operates as follows:

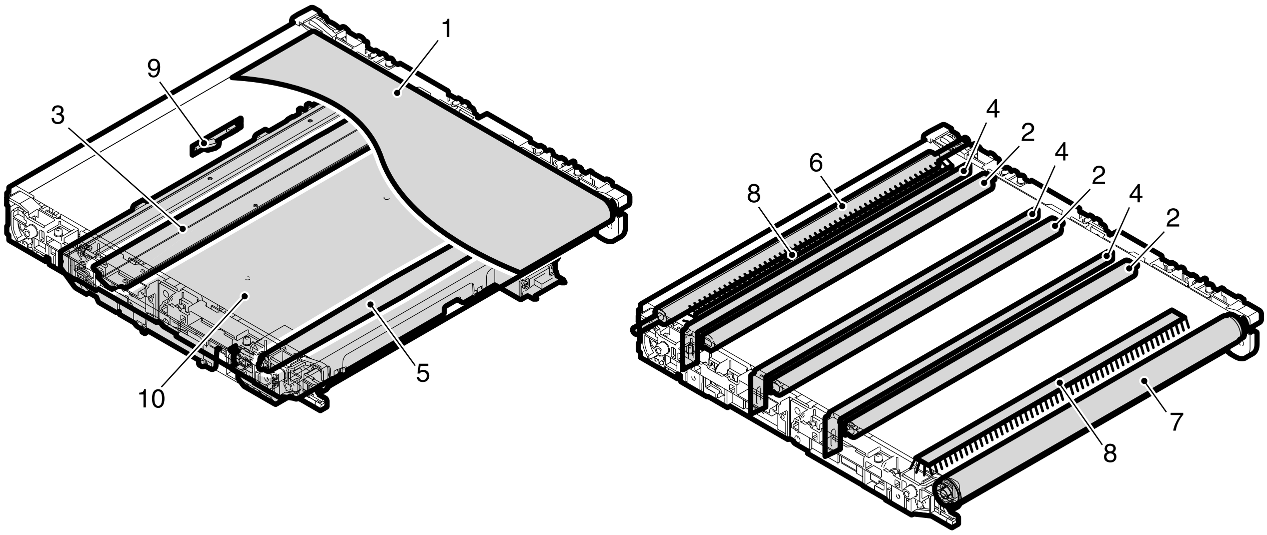
1) A high, positive voltage is applied to the transfer roller to charge the transfer belt and paper on it positively, attracting negatively charged toner images on the OPC drum onto paper.

(2) Electrical and mechanical sections


Transfer belt unit
(20pin)
12 BTNF
13 NC
9 CALS/
14 GND2
7 BSEN_LED
8 PCS_K
1 GND2
4 PCS_C
3 ASEN_LED
10 GND2
5 REGSEN
6 TS (CL)
16 BTM /B
17 BTM /A
18 BTM B
19 BTM A
15 +24V
20 GND (FLAME)
FG
(14pin)
11 +24V
13 CALS/
7 GND2
3 PCSC
1 B SEN LED
5 REG SEN
9 +5V
10 PCSK
8 A SEN LED
12 GND2
(5pin)
(4pin)
PCSC
Color PC & Auto reg sensor
PCSK
(2pin)
1 2
Process control shutter
CALS
FG
GND
HV REM
TC C
TC M
TC Y
TC K
FG
(NC)
+24V
1 2 3 4 5 6 7 8 9 10
CN2 (10pin)
HV (MC) PWB
8 +24V
7 GND2
6 GND2
5 HV STB
4 HV DATA
3 HV CLK
2 HV REM
CN1 (8pin) 1
DSNRout
DSWR
30 34
+24V
1
5
8
7
4
2
6
CN17 (28pin)
CN9 (24pin)
PCU PWB
Drawer connector (24pin)
14 BTNF
2 NC
21 CALS/
12 BELT CHim
6 A SEN LED
4 PCSK
13 GND2
10 PCSC
8 B SEN LED
11 GND2
22 REG SEN
24 +5V
9 BTM B/
7 BTM A/
5 BTM B
3 BTM A
1 +24V
CN6 (10pin)
2 4 6 3 5 7 9 8 10
Drive gear
1 BTM B/
2 BTM A/
3 BTM B
4 BTM A
5 +24V
6 +24V
BTM
1 BTN F
2 GND2
BTNF
Lift-up cam
BLUD
1 +5V
2 BLUD
3 GND2
4
5
(5pin)
BLUM
(6pin)
1 BLUM B/
2 BLUM A/
3 BLUM B
4 BLUM A
5 +24V
6 +24V
THVK
THVC
THVM
THVY
HV (TC) PWB
CN1 (10pin)
+24V 1
(NC) 2
FG 3
TCK 4
TCY 5
TCM 6
TCC 7
HVREM 8
GND 9
FG 10

(3) Major parts/signals functions and operations





No.	Name	Code, signal name	Function
1	Transfer belt	—	Transfers toner images on the OPC drum onto paper.
2	Transfer roller	—	Applies a transfer voltage to the transfer belt.
3	Belt cleaning blade	—	Cleans and removes toner from the transfer belt.
4	Transfer discharge sheet	—	Discharges the transfer belt.
5	Transfer belt cleaning roller	—	Removes paper dust from the transfer belt.
6	Transfer belt drive roller	—	Drives the transfer belt.
7	Transfer belt follower roller	—	Transfer drive follower roller
8	Transfer belt cleaning brush	—	Cleans the back surface of the transfer belt.
9	Process control sensor	Monochrome: PCSK Color: PCSC	Detects the toner patch density in image density correction.
10	Transfer waste toner tank	—	Collects waste toner on the transfer belt.
RW	Belt motor	BTM	Drives the transfer belt.
RW	Calibration solenoid	CALS	Drives the shutter on the process control sensor.
RW	Waste toner full detection switch	BTNF	Detects waste toner full in the waste toner box.
RW	Belt lift-up motor	BLUM	Lifts up the transfer belt unit.
RW	Belt lift-up sensor	BLUD	Detects the position of the transfer belt unit.
RW	Control signal	TC (K, C, M, Y)	Each color transfer high voltage control signal
RW	Control signal	THV (K, C, M, Y)	Each color transfer high voltage

RW: Abbreviation of Related Wiring, which means the said load is specified in the related figure of the mechanical and the electrical sections.

(4) Operational descriptions

a. Transfer belt drive

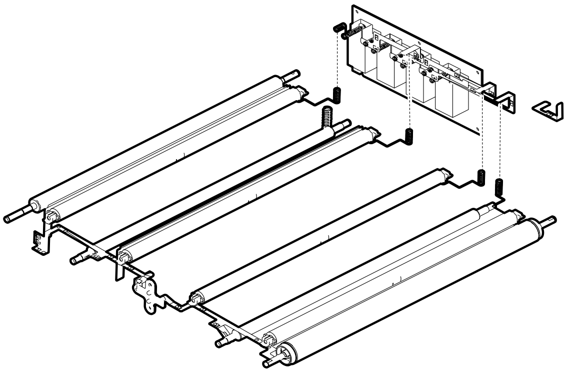
The transfer belt drive power is transmitted from the drive motor (BTM) to the transfer drive roller.

The motor (stepping motor) is driven by the drive signal sent from the PCU.

b. Applying a transfer high voltage to the transfer roller

According to the high voltage control signal from the PCU, the signal is converted into a transfer high voltage control signal with the HV (MC) PWB, and sent to the HV (TC) PWB.

According to each color transfer high voltage control signal, a high voltage is applied to each transfer roller from the transfer high voltage HV (TC) PWB through the connection spring to each transfer roller.



c. Process control sensor control

The process control shutter is provided on the process control sensor of monochrome (PCSK) and color (PCSC). When the shutter is open (in image density correction and automatic registration), the toner patch formed on the transfer belt is read by the process control sensor, and its information is sent to the PCU.

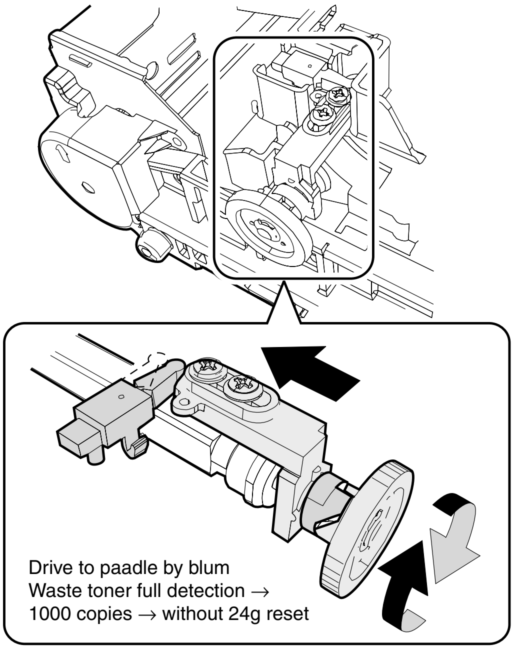
When the shutter is closed, the calibration sheet is read to perform calibration of the sensor itself.

The shutter operation is controlled by the calibration solenoid (CALS).

d. Belt waste toner full detection

Toner scraped by the belt cleaning blade is transported to the waste toner box by the belt waste toner transport shaft.

When the waste toner box is full, the rotation load of the waste toner transport shaft increases to turn on the waste toner full detection switch with the lever by the torque limiter function.



Drive to paadle by blum
Waste toner full detection →
1000 copies → without 24g reset

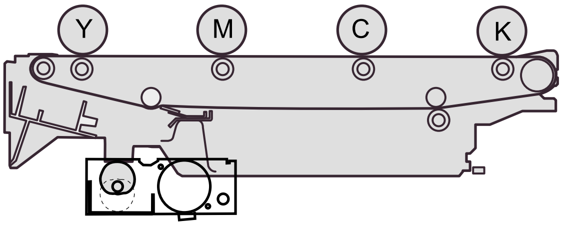
e. Transfer belt unit up and down

In color print, the transfer belt is in contact with four OPC drums. In black and white print, the transfer belt unit moves down so that only the black OPC drum is in contact with the transfer belt.

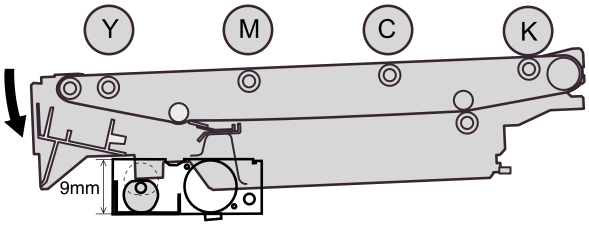
This up-and-down movement of the transfer belt is performed by the lift-up motor (BLUM), the lift-up cam, and the unit position sensor (BLUD).

When the left cabinet is opened for jam process, the rotating mechanism of the lift-up unit separates all four OPC drums from the transfer belt.

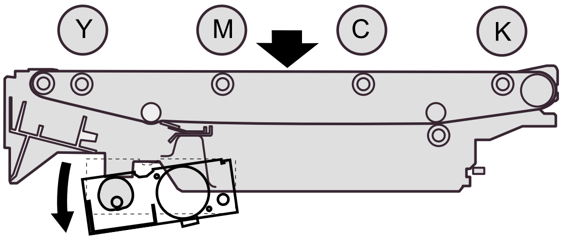
- Transfer belt position for color print
  The four OPC drums are in contact with the transfer belt by rotation of the cam in the transfer lift-up unit.



- Transfer belt position for black print
  Only the black OPC drum is in contact with the transfer belt by rotation of the cam in the transfer lift-up unit.



- Transfer belt position in jam process or replacement of the transfer belt
  When the left cabinet is opened, the transfer lift-up unit moves down, and the transfer unit moves by 9mm accordingly.

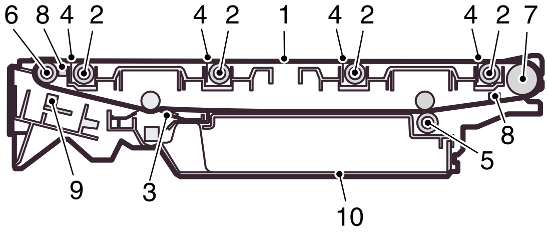


B. Disassembly/assembly/maintenance

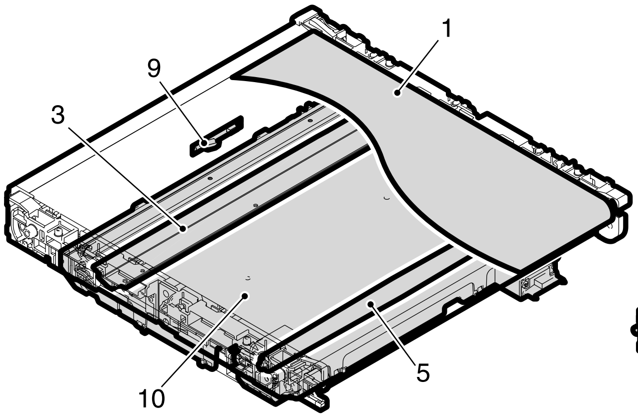
(1) Transfer section maintenance target parts

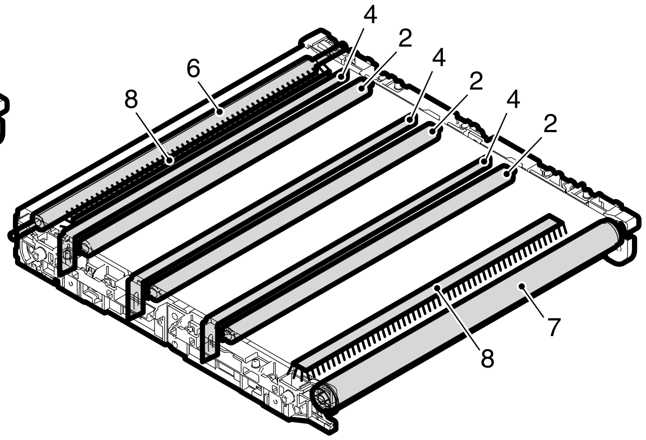
×: Check (Clean, replace, or adjust as necessary.) ❍: Clean ▲: Replace △: Adjust ☆: Lubricate ❑: Shift position

Unit name	No.	Part name	When calling	50K	100K	150K	200K	250K	300K	350K	400K	Remark
Transfer section	1	Transfer belt		×	▲	×	▲	×	▲	×	▲	Replace at 100K or within 2 years.
	2	Transfer roller		×	▲	×	▲	×	▲	×	▲	
	3	Transfer belt cleaning blade		×	▲	×	▲	×	▲	×	▲	Replace at 100K or within 2 years.
	4	Transfer discharge sheet		×	❍	×	❍	×	❍	×	❍	
	5	Transfer belt cleaning roller		×	▲	×	▲	×	▲	×	▲	
	6	Transfer drive roller		×	×	×	×	×	×	×	×	
	7	Transfer follower roller		×	×	×	×	×	×	×	×	
	8	Transfer discharge brush		×	×	×	×	×	×	×	×	
	9	Sensors		×	×	×	×	×	×	×	×	
	10	Waste toner tank unit	▲	×	▲	×	▲	×	▲	×	▲	When waste toner full is detected.
	11	Transfer belt unit		×	▲	×	▲	×	▲	×	▲	Replace the unit at 100K or within 2 years.



TX belt clean blade seals.

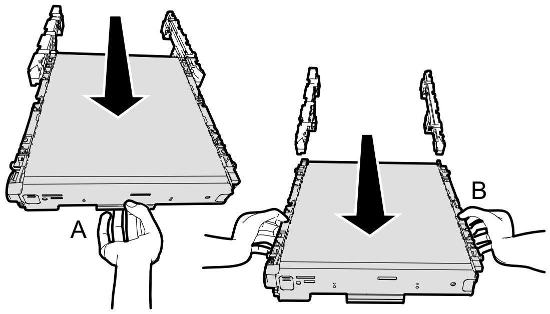




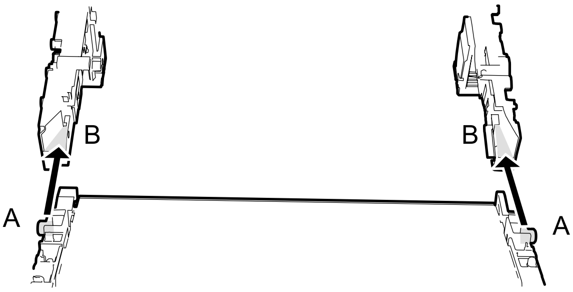
(2) Maintenance parts replacement procedure

a. Transfer unit removal

1) Open the left cabinet, and remove the fusing unit. (Refer to the section of the fusing unit.)
2) Hold section A of the transfer unit and pull it in the arrow direction so that you can hold both sides of the unit.
3) Hold both sides B and remove the transfer unit from the machine.

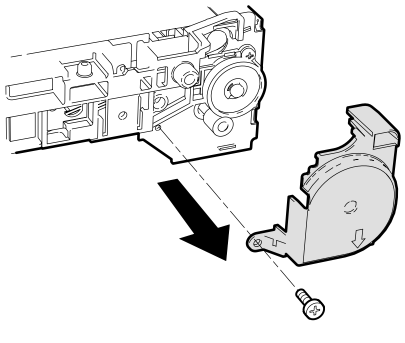


Note: Be careful not to scratch the surface of the transfer belt.

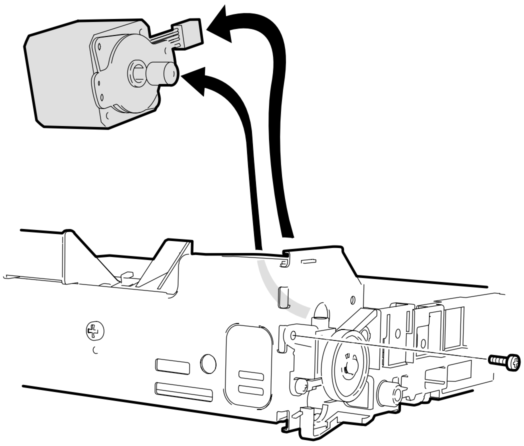


b. Belt drive motor

1) Remove the transfer unit from the machine.
2) Remove the screw, and remove the belt cover gear.

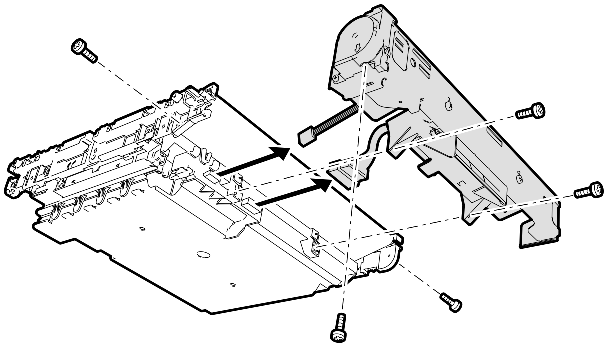


3) Remove the connector, the screw, and the motor.

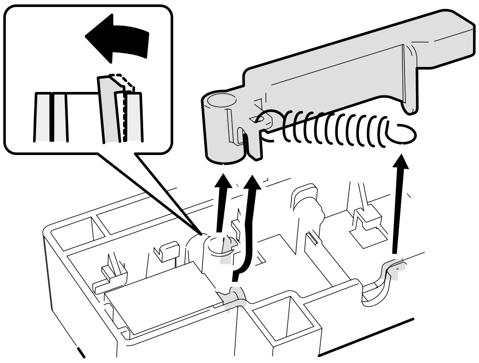


c. Process control sensor

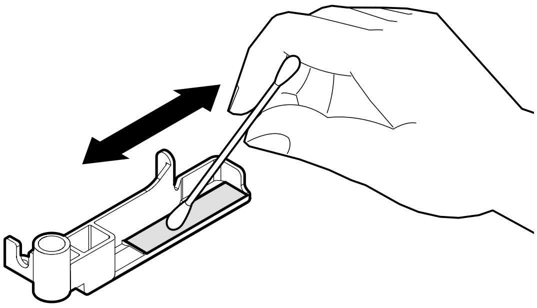
1) Remove the transfer unit from the machine.
2) Remove the connector and the screw, and remove the belt drive unit.



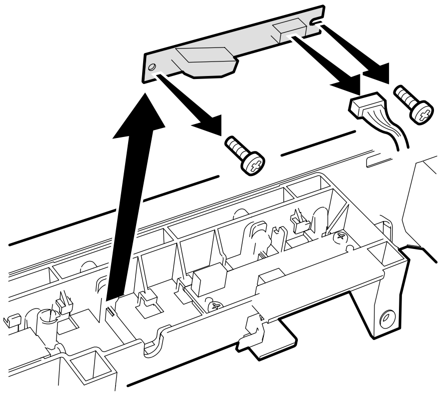
3) Remove the spring from the hook section.
4) Remove the hook, and remove the process control shutter.



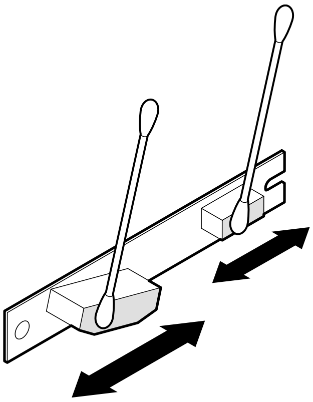
Cleaning: Clean the calibration sheet. (Wipe with soft, dry cloth.)



5) Remove the connector, and remove the process control sensor.

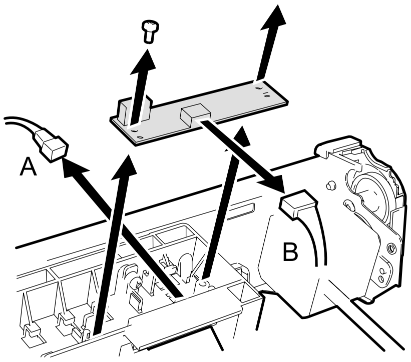


Cleaning: Clean the sensor surface.



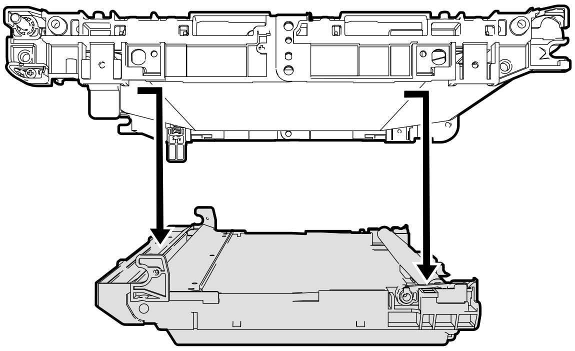
d. PWB

1) Remove the transfer unit from the machine.
2) Remove the connector and the screw, and remove the belt drive unit.
3) Remove the spring from the hook section.
4) Remove the process control shutter.
5) Remove the connector (A).
6) Remove the connector (B) and the screw, and remove the PWB.



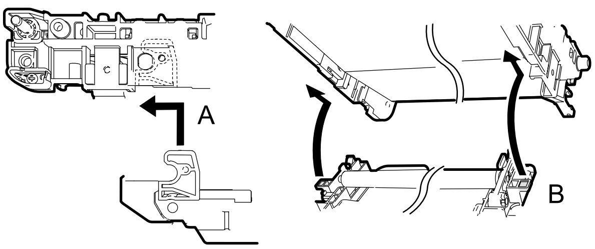
e. Waste toner tank unit

1) Remove the transfer unit from the machine.
2) Remove the connectors and the screws, and remove the belt drive unit.
3) Remove the waste toner tank unit.



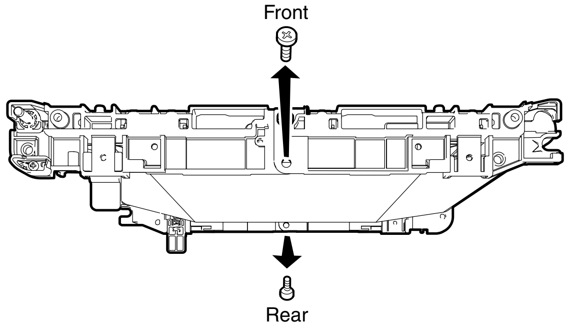
Note for assembly:

Insert the notches A and B of the waste toner tank unit into the positions in the transfer frame indicated in the figure below.



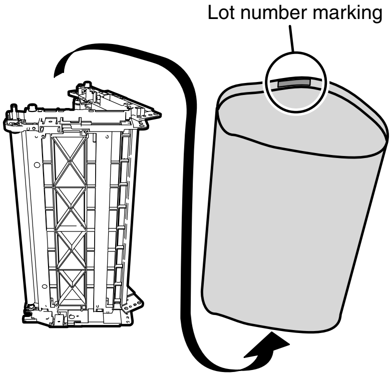
f. Transfer belt

1) Remove the transfer unit from the machine.
2) Remove the connector and the screw, and remove the belt drive unit.
3) Remove the lower screw.



Note: If the upper screw is removed and folded, the electrode is deformed. Therefore, be sure to remove the lower screw.

4) Fold the transfer belt housing and remove the transfer belt.

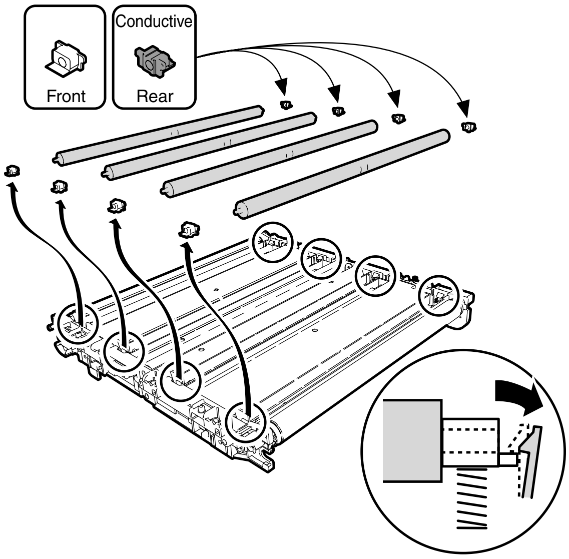


Note for installation:

When installing the transfer belt, be sure to place the lot number section marked inside the transfer belt on the front side.

g. Transfer roller

1) Remove the transfer unit from the machine.
2) Remove the connector and the screw, and remove the belt drive unit.
3) Remove the transfer belt.
4) Disengage the pawl, and remove the bearing and the transfer roller.

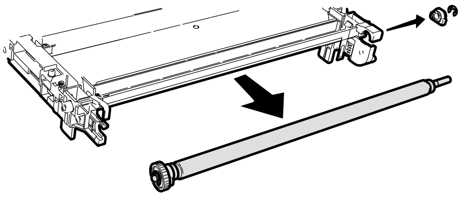


Note for assembly:

There are two different transfer roller bearings: black and white. The black bearing is conductive, and must be attached to the electrode side (rear frame side).

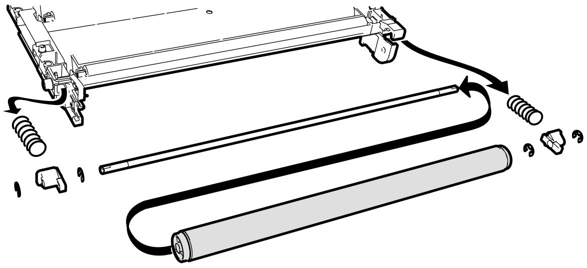
h. Transfer drive roller

1) Remove the transfer unit from the machine.
2) Remove the connector and the screw, and remove the belt drive unit.
3) Remove the transfer belt.
4) Remove the E-ring and the bearing, and remove the transfer drive roller.



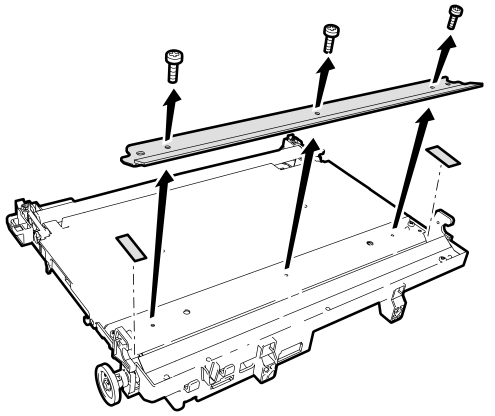
i. Transfer follower roller

1) Remove the transfer unit from the machine.
2) Remove the connector and the screw, and remove the belt drive unit.
3) Remove the transfer belt.
4) Remove the E-ring and the bearing, and remove the transfer follower roller.



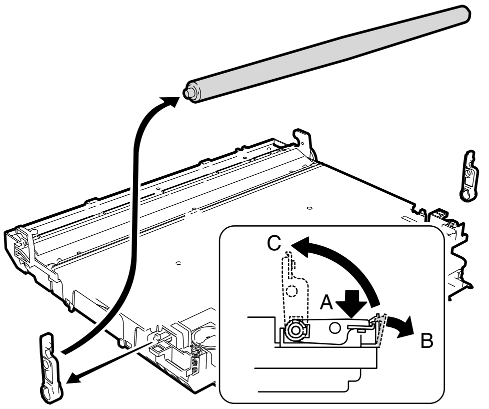
j. Transfer cleaning blade

1) Remove the transfer unit from the machine.
2) Remove the connector and the screw, and remove the belt drive unit.
3) Remove the waste toner tank unit.
4) Remove the screw, and remove the transfer cleaning blade.



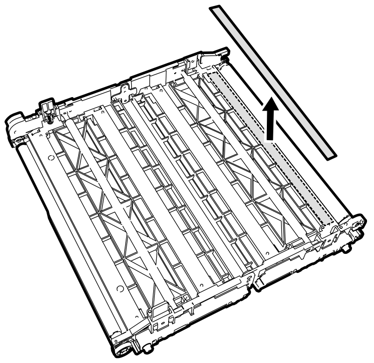
k. Transfer belt cleaning roller

1) Remove the transfer unit from the machine.
2) Remove the connector and the screw, and remove the belt drive unit.
3) Remove the waste toner tank unit.
4) Press the cleaning lever in the arrow direction A, extend the pawl in the arrow direction B, and pull up the cleaning level in the arrow direction C.
5) Remove the transfer belt cleaning roller.



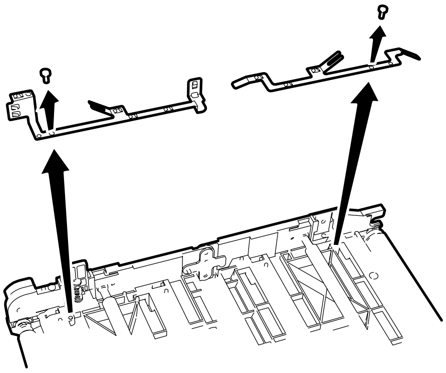
l. Belt cleaning brush

1) Remove the transfer unit from the machine.
2) Remove the connector and the screw, and remove the belt drive unit.
3) Remove the transfer belt.
4) Remove the Belt cleaning brush.

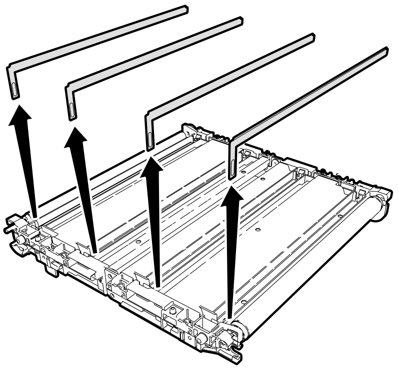


m. Transfer discharge sheets.

1) Remove the transfer unit from the machine.
2) Remove the connector and the screw, and remove the belt drive unit.
3) Remove the transfer belt.
4) Remove the terminals.

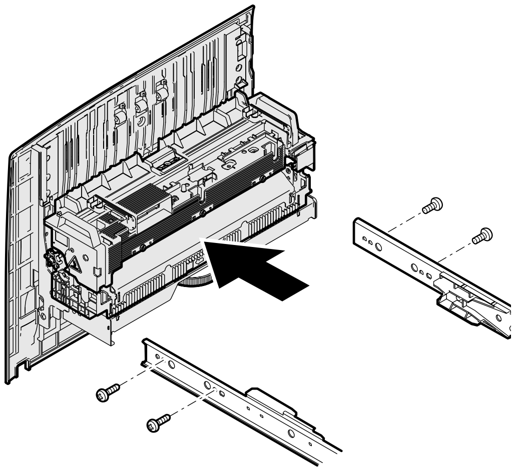


5) Remove the transfer discharge sheets.

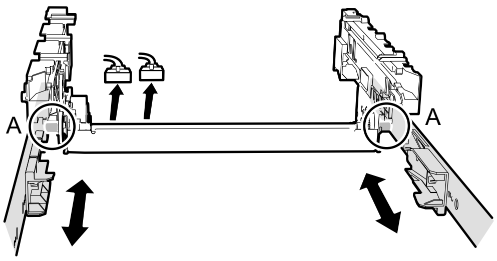


n. Transfer lift-up unit

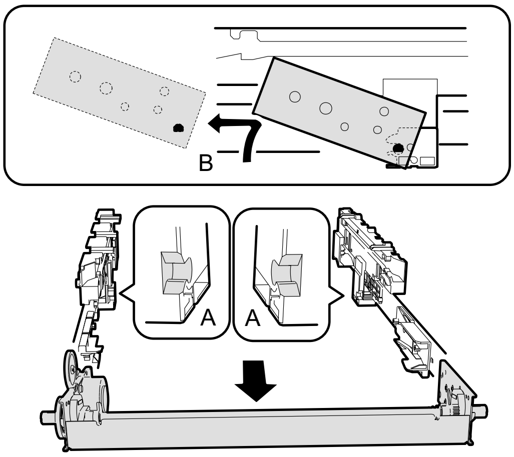
1) Remove the screw, and remove the left cabinet of the machine.



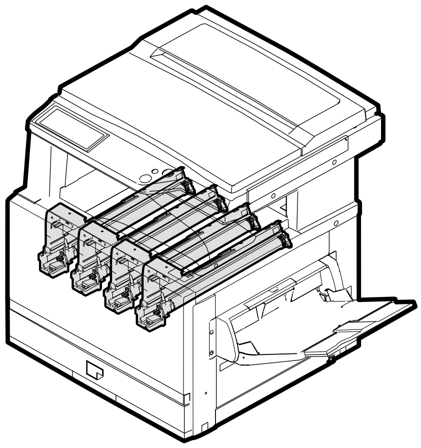
2) Remove the connector.
3) Adjust the rail positions so that section A does not make contact with the acuride section when the transfer lift-up unit is lifted up.

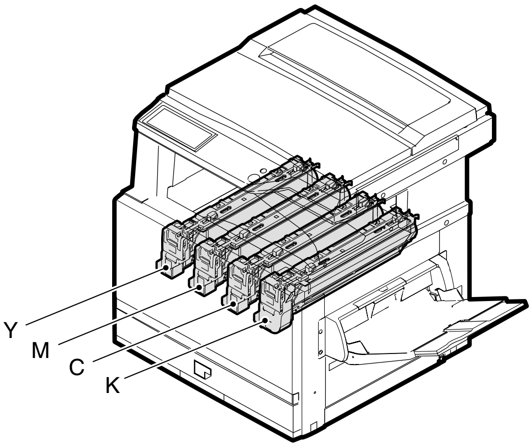


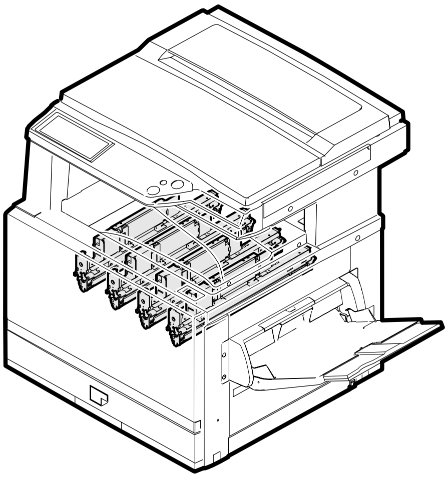
4) Lift the transfer lift-up unit in the arrow direction B with section A as the fulcrum, and remove it.



3. Process (image forming) section







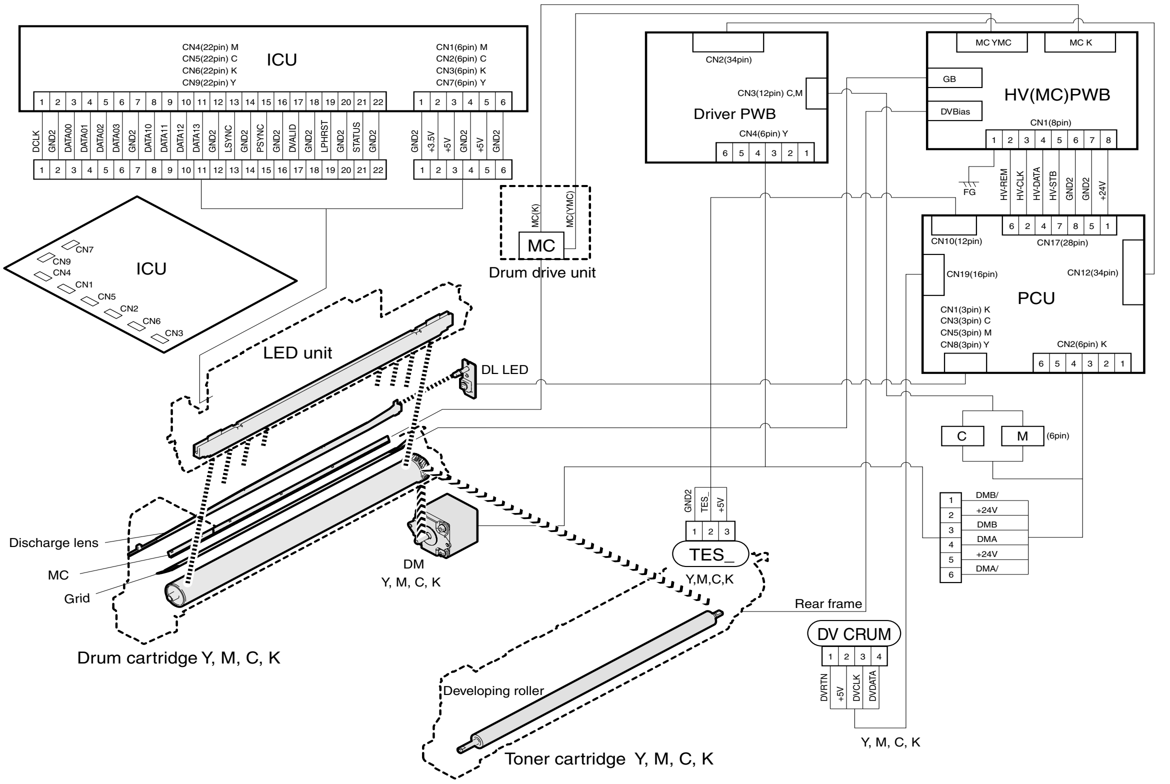
A. Operational descriptions

(1) Outline

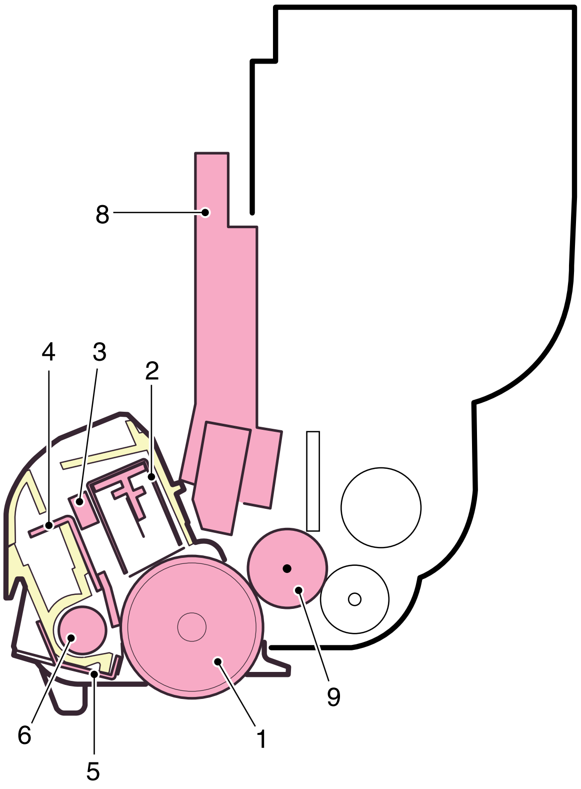
This section functions and operates as follows:

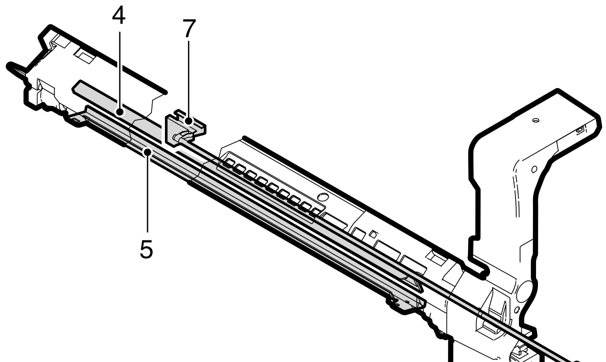
1) In this section, the LED is lighted according to the data sent from the image process section to form electrostatic latent images on the OPC drums which are charged evenly by the main charger, and toner is attached to the electrostatic latent images.

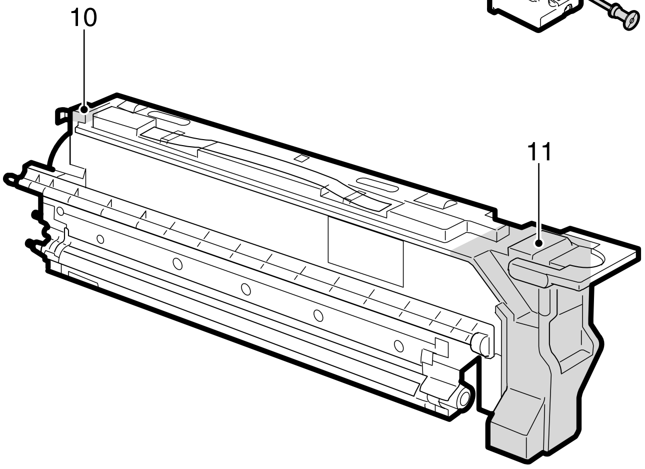
(2) Electrical and mechanical sections


ICU
CN4(22pin) M
CN5(22pin) C
CN6(22pin) K
CN9(22pin) Y
CN1(6pin) M
CN2(6pin) C
CN3(6pin) K
CN7(6pin) Y
DCLK
GND2
DATA00
DATA01
DATA02
DATA03
GND2
DATA10
DATA11
DATA12
DATA13
GND2
LSYNC
GND2
PSYNC
GND2
DVALID
GND2
LPHRST
GND2
STATUS
GND2
GND2
+3.5V
+5V
GND2
+5V
GND2
ICU
CN7
CN9
CN4
CN1
CN5
CN2
CN6
CN3
MC(K)
MC(YMC)
MC
Drum drive unit
Driver PWB
CN2(34pin)
CN3(12pin) C,M
CN4(6pin) Y
HV(MC)PWB
MC YMC
MC K
GB
DVBias
CN1(8pin)
FG
HV-REM
HV-CLK
HV-DATA
HV-STB
GND2
GND2
+24V
PCU
CN10(12pin)
CN17(28pin)
CN19(16pin)
CN12(34pin)
CN1(3pin) K
CN3(3pin) C
CN5(3pin) M
CN8(3pin) Y
CN2(6pin) K
LED unit
DL LED
C
M
(6pin)
DMB/
+24V
DMB
DMA
+24V
DMA/
GND2
TES_
+5V
TES_
Y,M,C,K
Discharge lens
MC
Grid
DM
Y, M, C, K
Drum cartridge Y, M, C, K
Rear frame
DV CRUM
DVRTN
+5V
DVCLK
DVDATA
Y, M, C, K
Developing roller
Toner cartridge Y, M, C, K

(3) Major parts/signals functions and operations







No.	Name	Code, Signal name	Function
1	OPC drum (YMCK)	—	Forms electrostatic latent images.
2	Main charger (YMCK)	MC	Charges the OPC drum surface negatively.
3	Discharge lens	—	Discharges the OPC drum surface.
4	Cleaning blade	—	Cleans the OPC drum surface to remove residual toner.
5	Toner reception seal	—	Seals to prevent against toner leakage.
6	Waste toner transport screw	—	Transports toner scraped by the cleaning blade to the waste toner box of the toner cartridge.
7	MC cleaner	—	Cleans the MC (charging plate).
8	LED unit	—	Converts image signals into LED light and radiates it onto the OPC drum.
9	Developing roller	—	Attaches toner to the OPC drum. (Do not touch the developing roller.)
10	DV CRUM (Y, M, C, K)	—	Memory for toner cartridge data (counter, etc.)
11	Waste toner box	—	Collects waste toner transported from the drum cartridge.
RW	Grid biks	GB	Controls the drum surface potential.
RW	Discharge lamp	DL	Radiates lights onto the discharge lens.
RW	Drum motor A, A’, B, B’	DM A, A’, B, B’	Drives the OPC drum.
RW	Toner empty sensor	TES	Detects the toner quantity in the toner cartridge.

RW: Abbreviation of Related Wiring, which means the said load is specified in the related figure of the mechanical and the electrical sections.

(4) Operational descriptions

a. Drum cartridge and toner cartridge drive

The drive power for the drum cartridges are transmitted from the drive motor (DM) to the drum gears.

The toner cartridge is driven through the drum gear and the connection gear.

The motor (stepping motor) for black is driven by the drive signal sent directly from the PCU, and the motors color are driven by the drive signals sent from the PCU through the driver PWB.

b. LED (writing) unit

Four LED (writing) units are provided for each of Yellow, Magenta, Cyan, and Black.

Each LED (writing) unit converts YMCK dot image data outputted from the ICU PWB into LED light, and radiate the light onto the OPC drum, forming electrostatic latent images on the OPC drum.

Since the position of each LED unit of CMYK is shifted in the paper transport direction, the above operation depends on the relative position and differs in the operating timing.

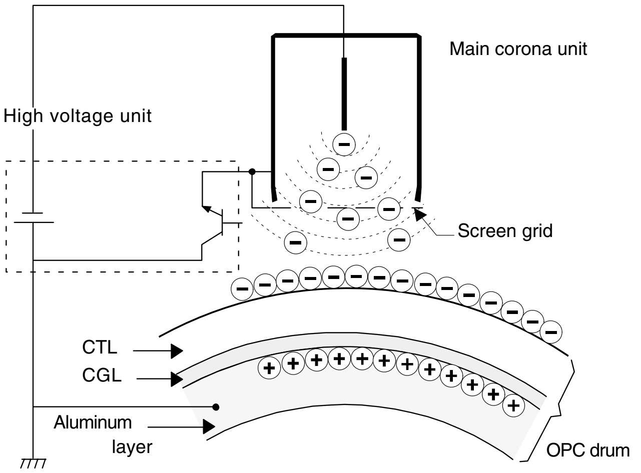
- LED unit composition

Item		Content
Print width		314mm
Total number of dots		7424 dot
Resolution		600dpi
LED composition	Number of LED chips	58 chip
	Number of dots	128 dot
Lens		Selfoc lens

c. OPC drum section operations

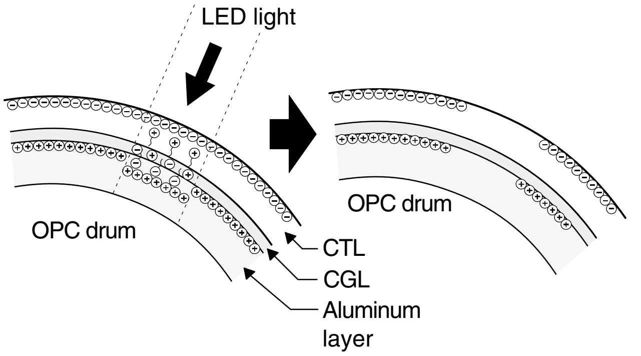
The OPC drum surface is charged negatively by the main charger, and LED light of images are radiated onto the OPC drum surface by the LED (writing) unit to form electrostatic latent images.

1) The OPC drum surface is negatively charged by the main charger.



The screen grid is attached to the main charger unit. The OPC drum is charged at a voltage nearly same as the voltage applied to the screen grid.

2) LED light is radiated onto the OPC drum surface by the LED (writing) unit to form electrostatic latent images.



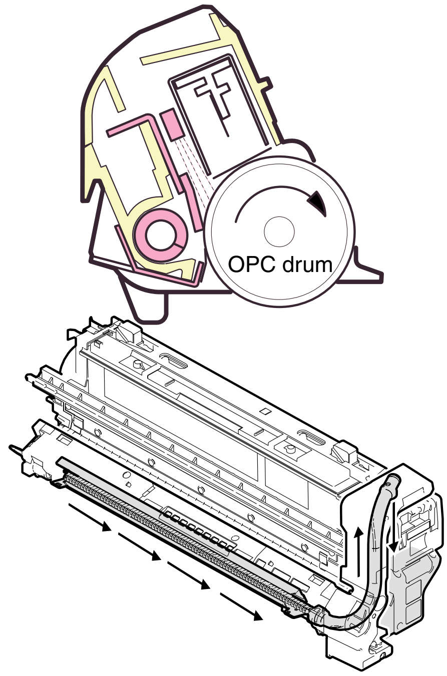
When LED light is radiated onto the OPC drum CGL, positive and negative charges are generated. Positive charges generated in the CGL are attracted and moved by negative charges of the OPC drum, and negative charges by positive charges of the aluminum layer of the OPC drum. Therefore, on the OPC drum surface and in the aluminum layer, positive and negative charges are neutralized, reducing the OPC drum surface potential.

Electric charges remain in the areas where LED light is not radiated onto the OPC drum.

As a result, electrostatic latent images are formed on the OPC drum surface.

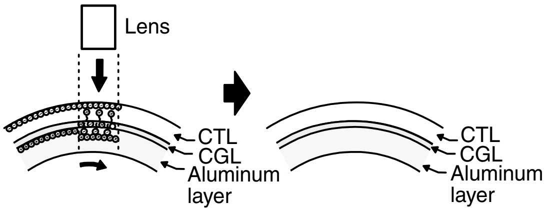
Charges are disposed in direct proportion to the amount of light received.

3) Clean and remove residual toner from the OPC drum with the cleaning blade after transfer operations.



Removed residual toner is transported to the waste toner section of the toner cartridge by the waste toner transport screw.

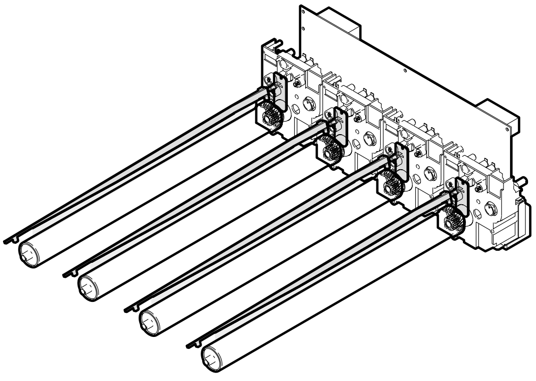
4) The whole surface of the OPC drum is discharged.



By radiating discharge lamp light onto the discharge lens, light is radiated through the discharge lens to the OPC drum surface.

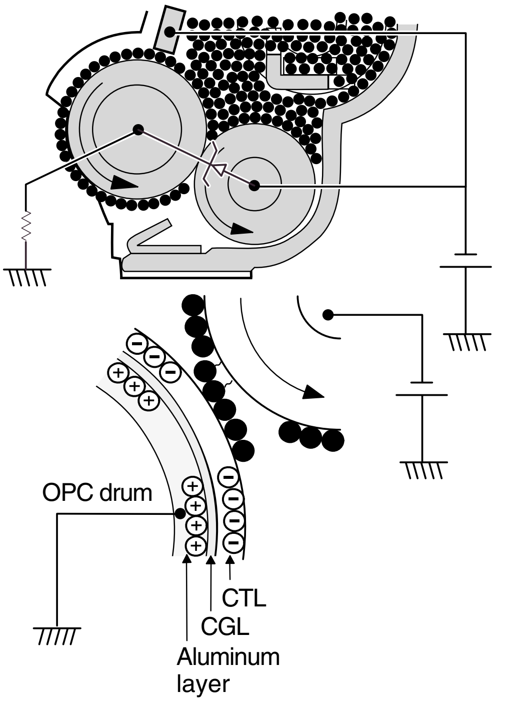
When discharge lamp light is radiated onto the OPC drum CGL, positive and negative charges are generated.

Positive charges generated in the CGL are attracted and moved by negative charges of the OPC drum, and negative charges by positive charges of the aluminum layer of the OPC drum. Therefore, on the OPC drum surface and in the aluminum layer, positive and negative charges are neutralized, reducing the OPC drum surface potential, preparing the drum surface for the new copy cycle.



d. Developing section (composed of four units of YMCK) operations

Electrostatic latent images generated on the OPC drum by the LED (writing) units are converted into visible images by toner.



Toner in the developing unit is agitated by the mixing roller.

By mixing operation, toner is negatively charged due to mechanical friction.

The developing bias voltage (negative) is applied to the developing roller.

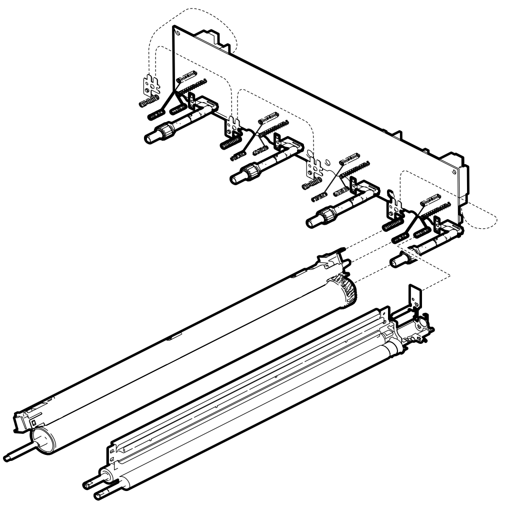
The difference for the voltage potential between the toner and DV roller surface attracts the toner to the DV roller.

In the areas of the OPC drum, when the charge was detected, the voltage potential difference is greater than the DV roller. Therefore the toner is attracted from the DV roller to the drum.

In the unexposed areas of the drum, the potential on the DV roller created by the bias voltage and therefore the toner to not attracted to those areas of the drum.

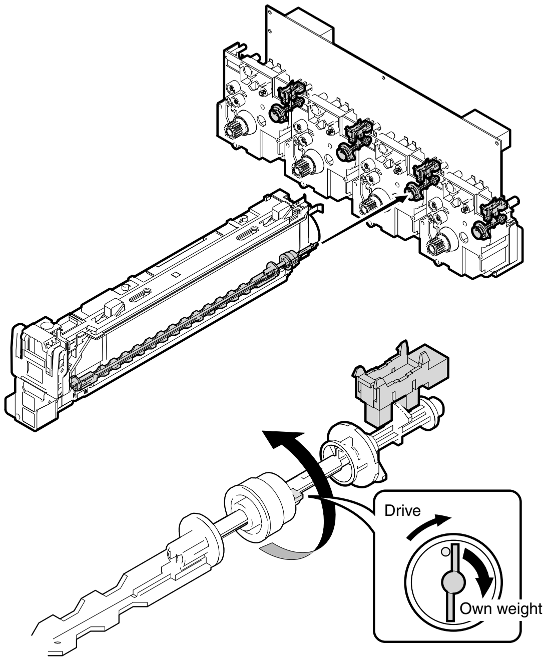
Negatively charged toner is attracted and attached to the exposed area on the OPC drum surface where the negative potential was reduced by LED exposure.

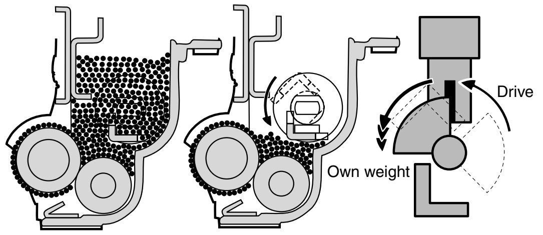
On the other hand, in the areas on the OPC drum where exposure was not made, the positive potential is higher than the developing bias voltage, repelling toner.



<1> Remaining toner quantity detection

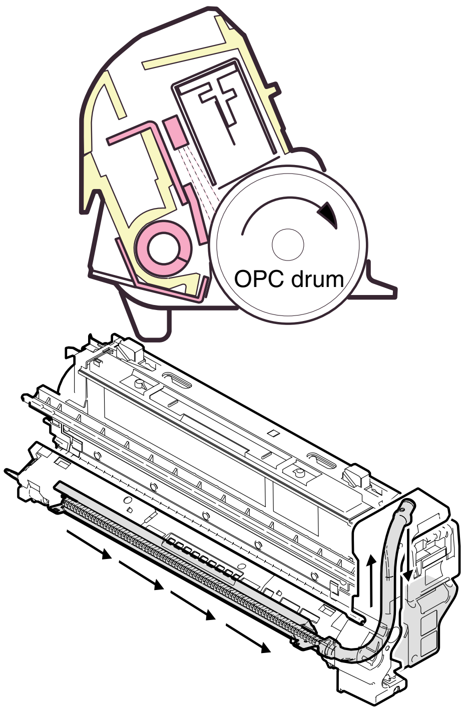
Rotation of the detection lever connected to the mixing roller is sensed by the sensor (TES) to detect the remaining toner quantity.





<2> Waste toner collection

Waste toner collected by the drum cleaning blade is transported to the waste toner box of the toner cartridge by the toner transport spring in the drum unit.



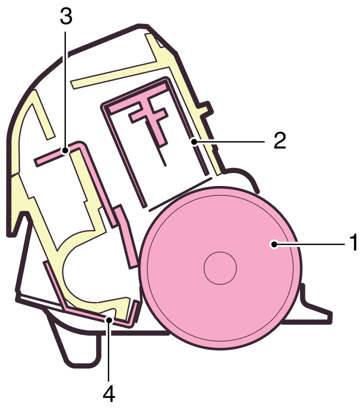
B. Disassembly/assembly/maintenance

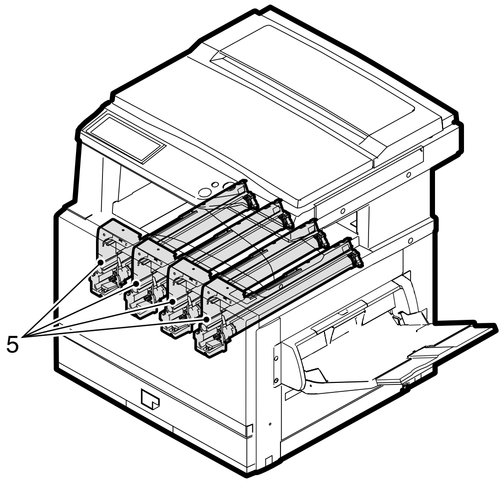
(1) Process section maintenance target parts

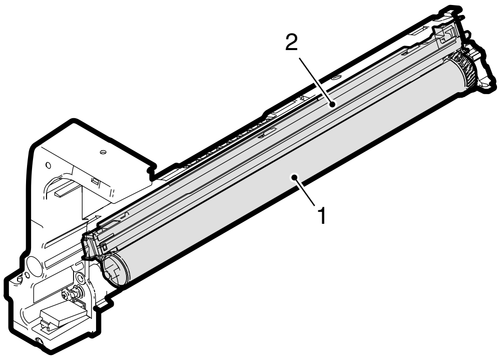
✕: Check (Clean, replace, or adjust as necessary.) ❍: Clean ▲: Replace △: Adjust ☆: Lubricate ❑: Shift position

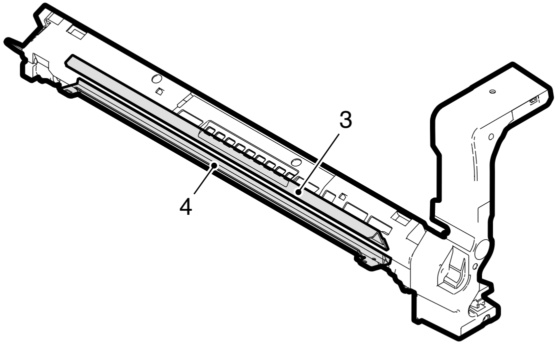
Unit name	No.	Part name	When calling	50K	100K	150K	200K	250K	300K	350K	400K	Remark
Drum module	1	Drum (Black/color)		▲	▲	▲	▲	▲	▲	▲	▲	
	2	Charging unit		▲	▲	▲	▲	▲	▲	▲	▲	
	3	Cleaner blade		▲	▲	▲	▲	▲	▲	▲	▲	
	4	Toner reception seal		▲	▲	▲	▲	▲	▲	▲	▲	
	5	Drum cartridge		▲	▲	▲	▲	▲	▲	▲	▲	When replacing the unit
Developing section (integrated with toner cartridge)	6	Toner cartridge	User replacement at every toner empty									
LED	7	LED lens	❍	❍	❍	❍	❍	❍	❍	❍	❍	

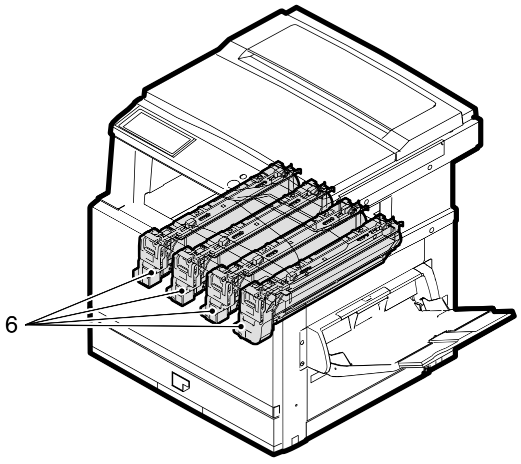
Note: When replacing the OPC drum, execute SIM 25-1 for 2 minutes. (This simulation is executed in order to avoid generation of stripes on a half-tone print image.)

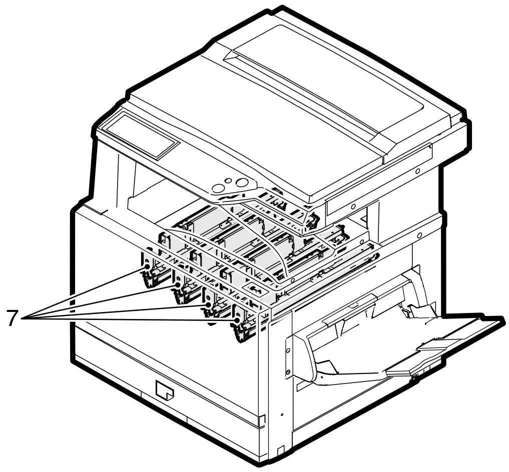








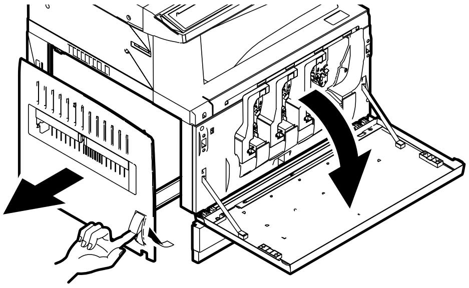




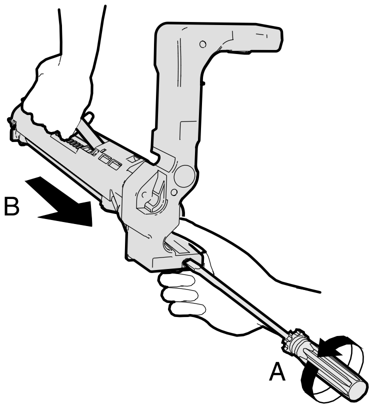
(2) Maintenance parts/major parts replacement

a. Drum unit removal

1) Open the front cabinet and left cabinet.



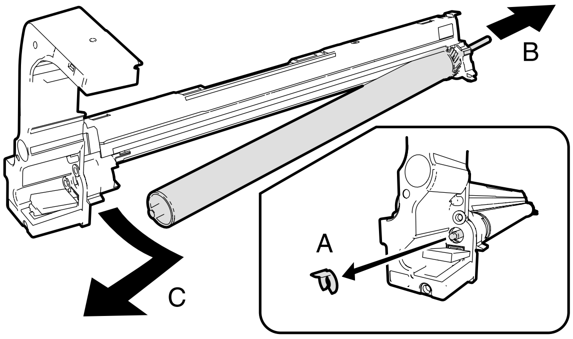
2) Turn the fixing screw in the arrow direction A to release it, and remove the drum unit in the arrow direction B.



Note: Be sure to open the left cabinet before releasing the fixing screw.
If the fixing screw is released before opening the left cabinet, the lock cannot be released.
In that case, push the drum unit to the rear frame side and release the lock, and remove the drum unit.

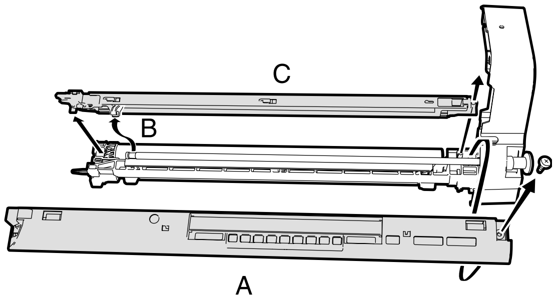
b. Drum removal

1) Remove the drum unit.
2) Remove the retaining clip from the drum shaft (A).
3) Slide the drum shaft in the arrow direction B.
4) Remove the drum in the arrow direction C.



c. Charging unit

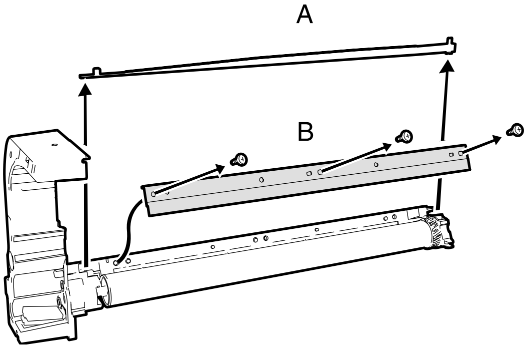
1) Remove the drum unit.
2) Remove the screw and remove the cover (A).
3) Remove the MC unit from the MC cleaning shaft.
4) Remove the charging unit (C).



∗ When assembling, attach the drum, then attach the charging unit. (This is to prevent against dirt by starting powder applied to the drum.)

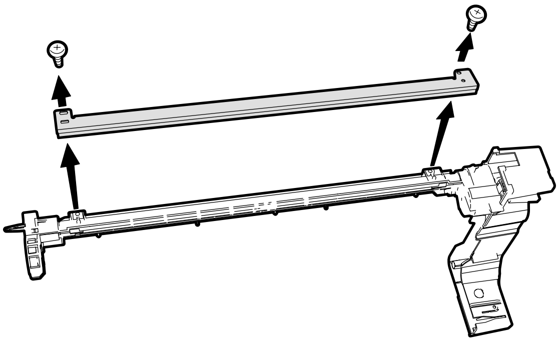
d. Cleaner blade

1) Remove the drum unit.
2) Remove the charging unit.
3) Remove (A).
4) Remove the screw, and remove the cleaner blade.



e. Toner reception seal

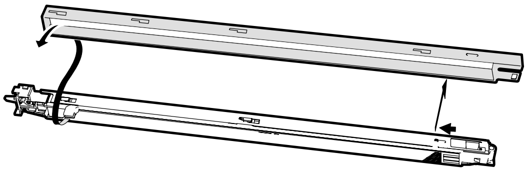
1) Remove the drum unit.
2) Remove the drum.
3) Remove the screw, and remove the toner reception seal.



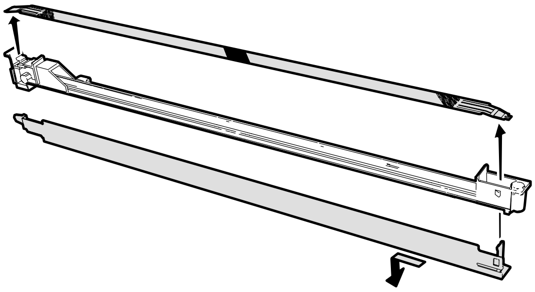
Note: Do not deform the seal.

f. MC cleaner

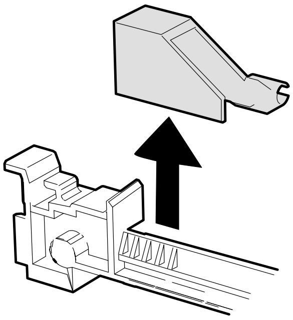
1) Remove the drum unit.
2) Remove the screw, and remove cover (A).
3) Remove the MC unit.
4) Disengage the pawl, and remove the MC case in the arrow direction.



5) Remove the screen grid.

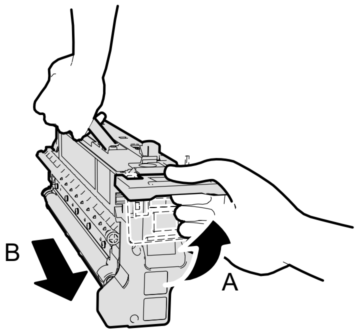


6) Disengage the pawl, and remove the MC cleaner.



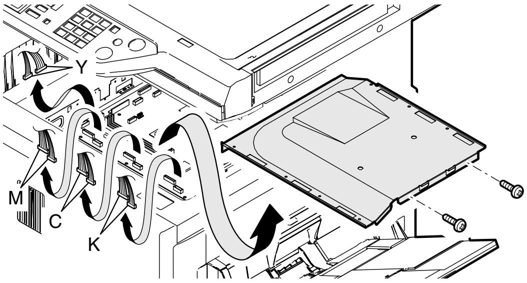
g. Developing unit removal

1) Open the front cabinet and the left cabinet of the machine.
2) Lift the lever in the arrow direction A, and remove the developing unit in the arrow direction B.

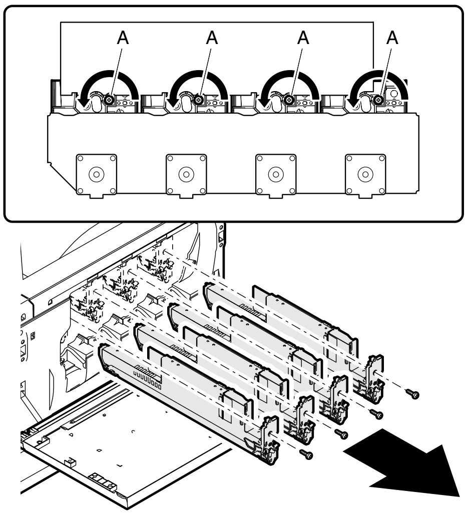


h. LED unit removal

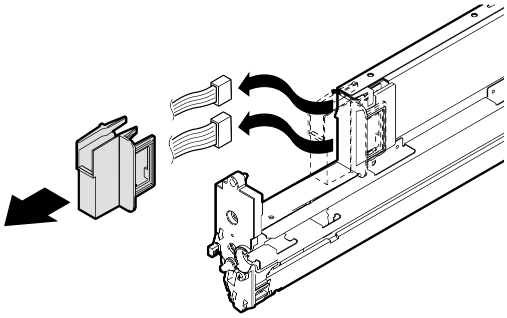
1) Remove the rear cabinet.
2) Remove the PCU PWB unit.
3) Remove the drum unit.
4) Remove the developing unit.
5) Remove the top cover, and disconnect the connector of the ICU.



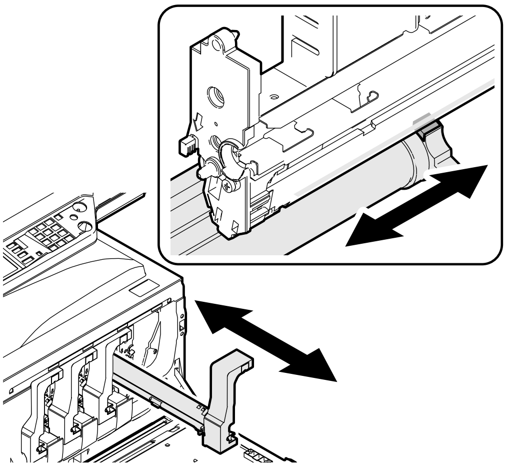
6) Remove the screw (A) on the rear side, and remove the LED unit.



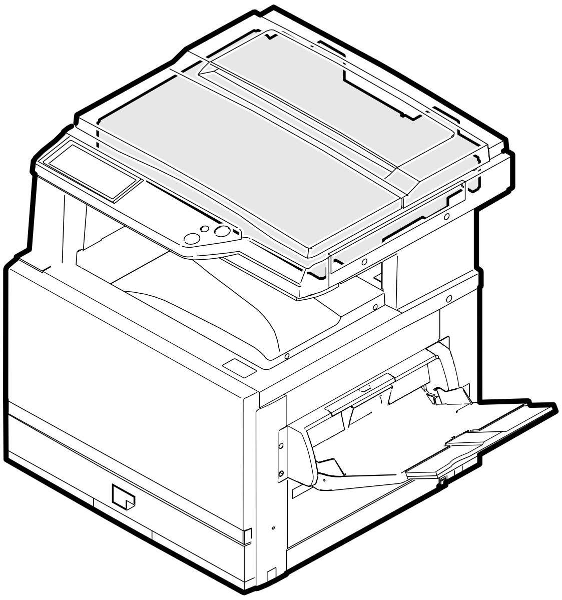
7) Remove the LED unit.
8) Remove the connector cover and the harness.



i. LED lens cleaning



4. Optical section (Scanner section)



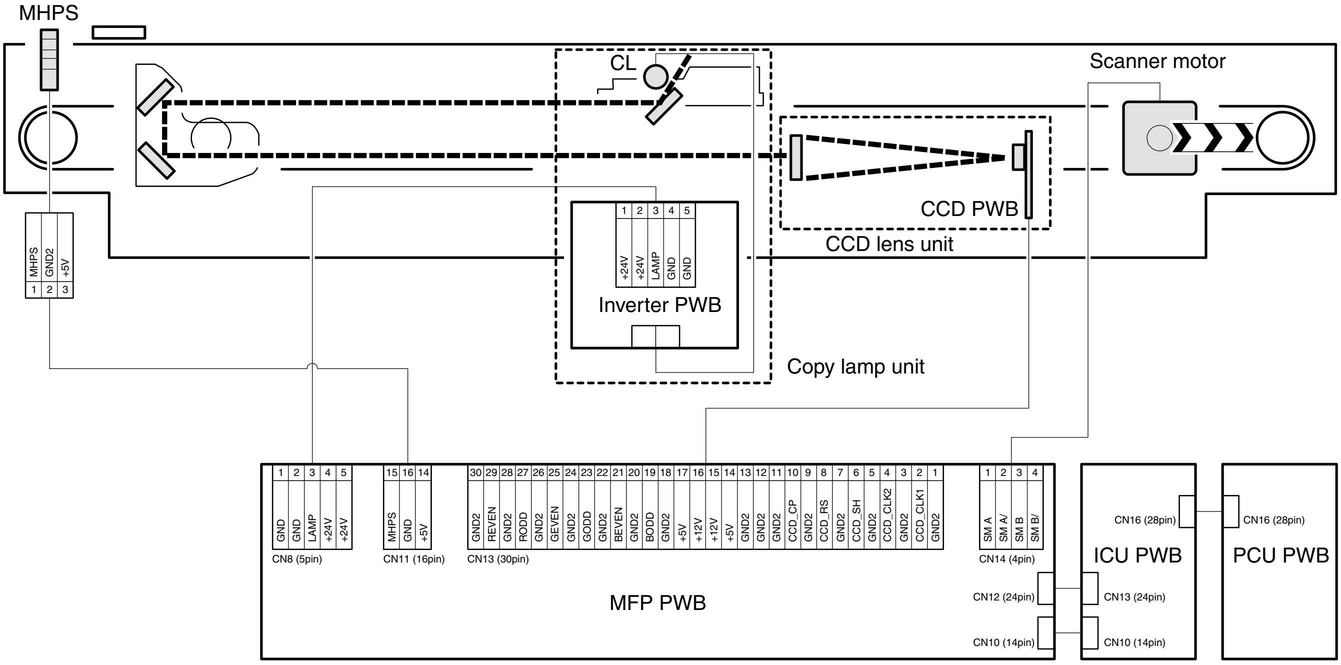
A. Operational descriptions

(1) Outline

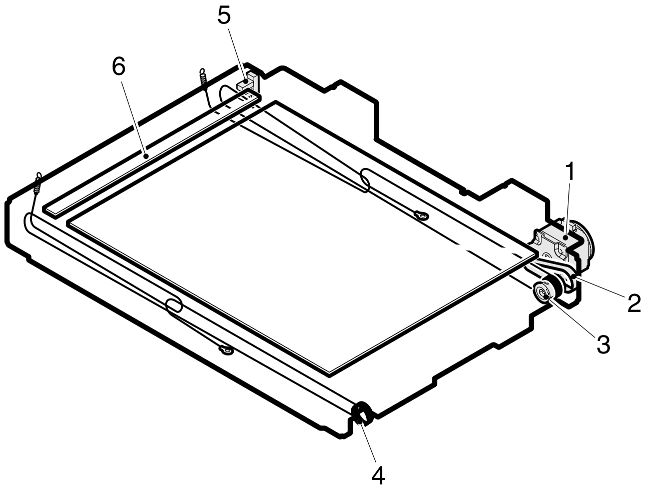
This section functions and operates as follows:

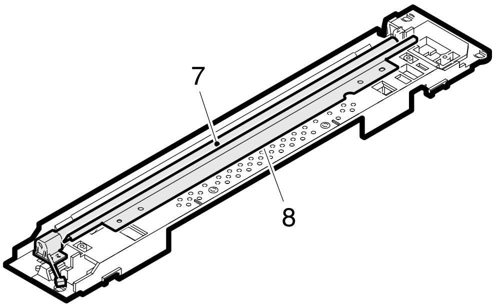
1) The copy lamp radiates light onto the document, and the reflected light is scanned by the three line (RGB) CCD element and then converted into image signals (analog).
2) The image signals (analog) are converted into 8bit digital signals by the A/D converter.
3) The image signals (digital) are sent to the image process section (ICU PWB).

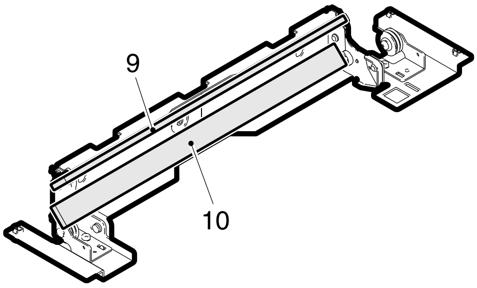
(2) Electrical section and mechanical section

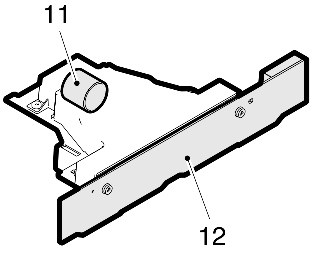

MHPS
CL
Scanner motor
CCD PWB
CCD lens unit
Inverter PWB
Copy lamp unit
1 2 3
MHPS GND2 +5V
1 2 3 4 5
+24V +24V LAMP GND GND
1 2 3 4 5
GND GND LAMP +24V +24V
CN8 (5pin)
15 16 14
MHPS GND +5V
CN11 (16pin)
30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1
GND2 REVEN GND2 RODD GND2 GEVEN GND2 GODD GND2 BEVEN GND2 BODD GND2 +5V +12V +12V +5V GND2 GND2 GND2 CCD_CP GND2 CCD_RS GND2 CCD_SH GND2 CCD_CLK2 GND2 CCD_CLK1 GND2
CN13 (30pin)
1 2 3 4
SM A SM A/ SM B SM B/
CN14 (4pin)
MFP PWB
CN12 (24pin)
CN10 (14pin)
CN16 (28pin)
ICU PWB
CN13 (24pin)
CN10 (14pin)
CN16 (28pin)
PCU PWB

(3) Major parts and signals functions and operations









No.	Name	Code, Signal name	Function
1	Scanner motor	SM	Drives the copy lamp unit and the mirror base unit.
2	Pulley belt	—	Transmits drive power of the scanner motor to the pulley.
3	Pulley	—	Drives the scanner drive wire.
4	Scanner drive wire	—	Transmits drive power of the scanner motor to the copy lamp unit and the mirror base unit.
5	Scanner unit home position sensor	MHPS	Detects the home position of the copy lamp unit.
6	Shading glass	—	Reference glass for shading correction
7	Copy lamp	CL	Radiates light onto documents. (Xenon lamp)
8	Reflector	—	Converges light from the copy lamp.
9	No. 2 mirror	—	Sends document images to No. 3 mirror.
10	No. 3 mirror	—	Sends document images to the lens.
11	Lens	—	Reduces document images (photo images) and projects them to the CCD.
12	CCD PWB	—	Receives the document image (photo signals) and converts them into electrical signals.
RW	Inverter PWB	LAMP	Drives the copy lamp (Xenon lamp).
RW	Scanner motor drive	SM A, A’, R, B’	
RW	MHPS	MHPS	Scanner home position detect jam

RW: Abbreviation of Related Wiring, which means the said load is specified in the related figure of the mechanical and the electrical sections.

(4) Operational descriptions

a. Optical section drive

The optical section drive power is transmitted from the drive motor (SM) through the belt, the drive pulley, and the wire to drive the copy lamp unit and the mirror base which are attached by the drive wires.

The drive motor (stepping motor) is controlled by the drive signal sent from the MFP PWB.

b. Copy lamp drive

The copy lamp is driven by the copy lamp drive voltage generated in the inverter PWB according to the control signal sent from the MFP PWB.

c. Image scan/color separation

The CCD element, appeared as one unit, but has three separate rows of CCD elements drive each for (RGB).

Light is radiated to a document by the copy lamp (Xenon lamp), and the brightness of the reflected light is received by the three line (RGB) CCD element and converted into (analog) image signals.

Each color component of RGB is separately extracted from the document image by the three lines (RGB) of the CCD elements.

The red CCD extracts the red components from the document image, the green CCD the green components, and the blue CCD the blue components. This operation is called Color Separation.

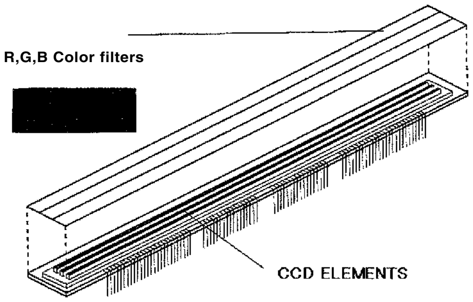
The CCD element, appeared as one unit, but has three separate rows of CCD elements drive each for (RGB).

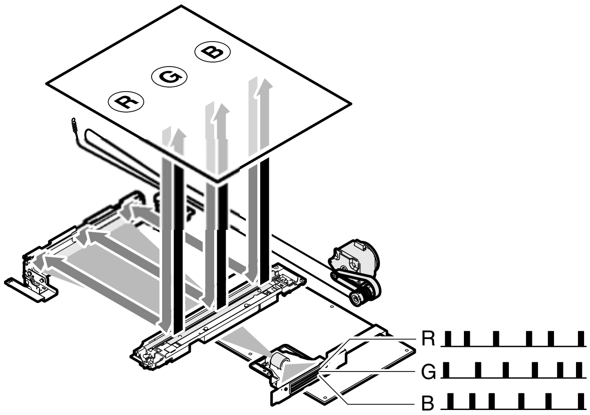
Scanning of a document in the main scanning direction is performed by the CCD elements. Scanning of a document in the sub scanning direction is performed by shifting the scanner unit position with the scanner motor.

Document images are optically reduced by the lens and projected to the CCD elements.

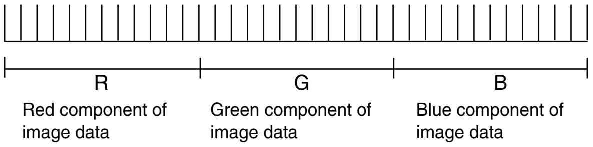
The scanning resolution is 600dpi × 600dpi.

3 LINES CCD UNIT



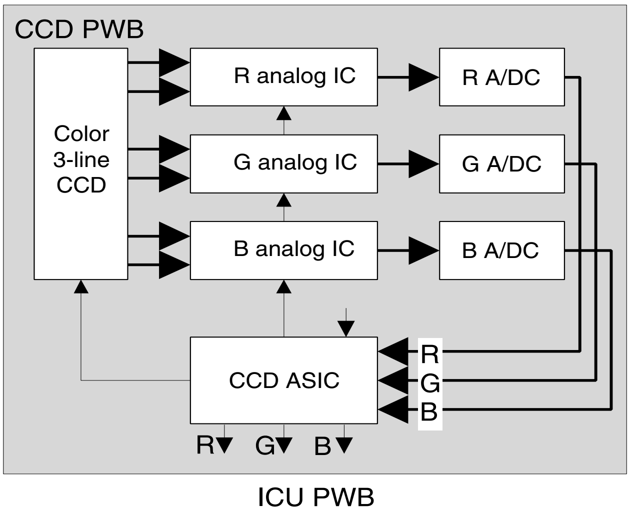


(Image data for one line)


R
G
B
Red component of image data
Green component of image data
Blue component of image data

d. Image signal A/D conversion

1) Each image signal (analog) of RGB is converted into 8bit digital signal by the A/D converter. Each color pixel has 8bit information (256 gradations).
2) Each 8bit digital image signal of RGB is sent to the image process section.



e. Zooming operation

Zooming in the sub scanning direction is performed by changing the scanning speed in the sub scanning direction.

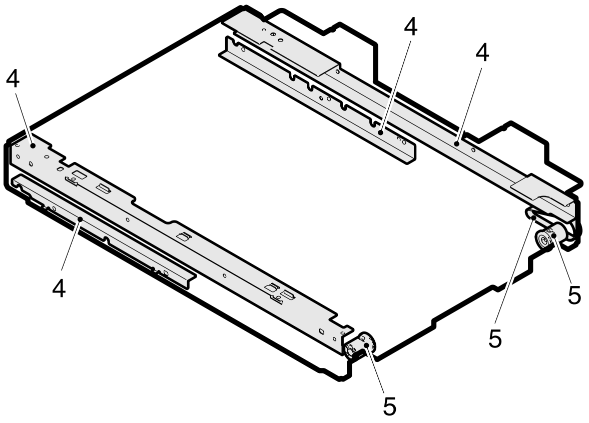
Zooming in the main scanning direction is not performed optically but by the image process technology (software).

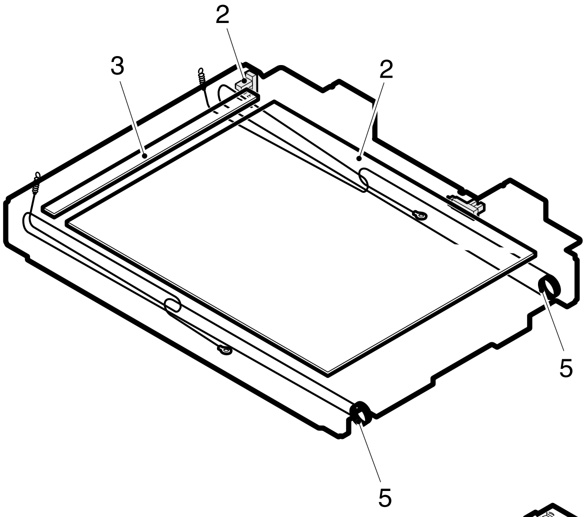
B. Disassembly/assembly/maintenance

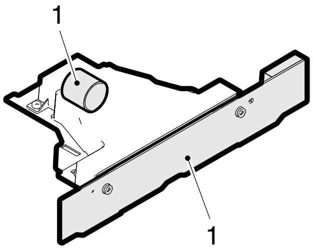
(1) Transfer section maintenance target parts

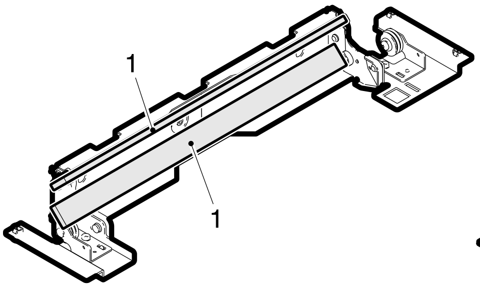
✕: Check (Clean, replace, or adjust as necessary.) ❍: Clean ▲: Replace ∆: Adjust ☆: Lubricate ❑: Shift position

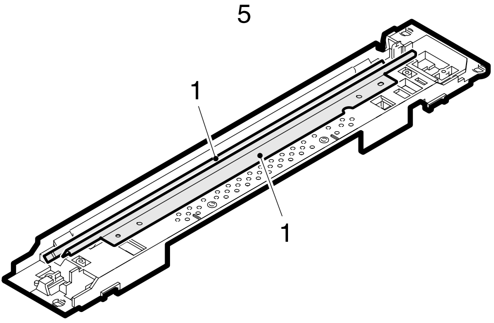
Unit name	No.	Part name	When calling	50K	100K	150K	200K	250K	300K	350K	400K	Remark
Optical section	1	CCD, mirror, lens, reflector		❍	❍	❍	❍	❍	❍	❍	❍	
	2	Table glass, sensors, OC		❍	❍	❍	❍	❍	❍	❍	❍	
	3	Shading glass		❍	❍	❍	❍	❍	❍	❍	❍	
	4	Rails		☆	☆	☆	☆	☆	☆	☆	☆	
	5	Drive wire, pulley, pulley belt		✕	✕	✕	✕	✕	✕	✕	✕	







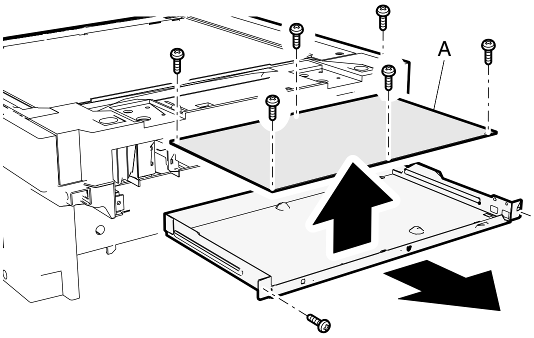




(2) Major parts replacement

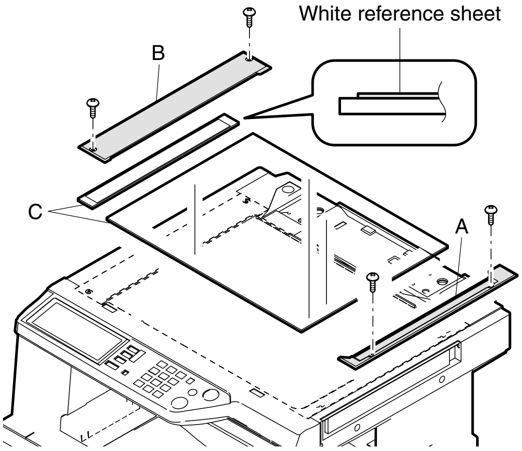
a. MFP PWB

1) Open the upper cabinet rear cover.
2) Remove the connector and the screw, and remove the scanner control PWB unit. Remove the screw and remove the scanner control PWB (A).

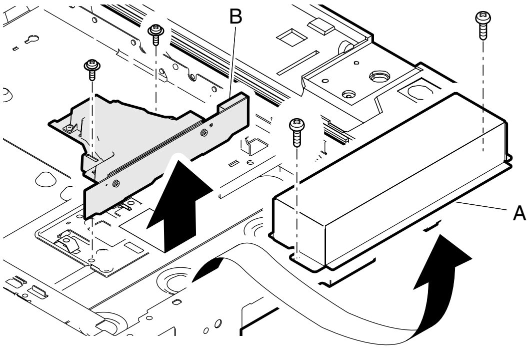


b. CCD unit

1) Remove the screw, the glass holder right (A), the glass holder left (B), and the table glass (C).

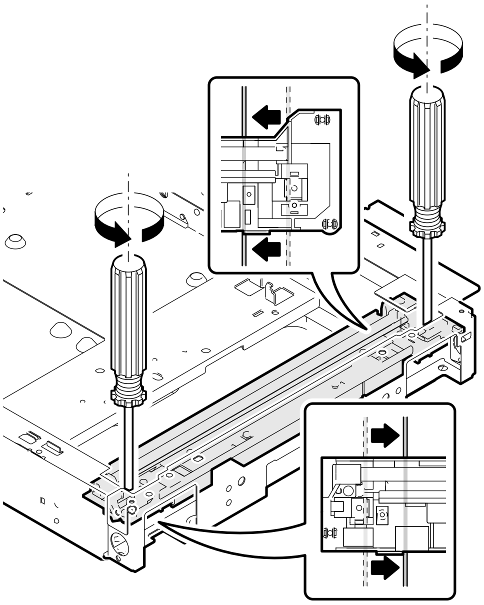


2) Remove the screw and the dark box cover (A). Remove the connector, the screw, and the CCD unit (B).

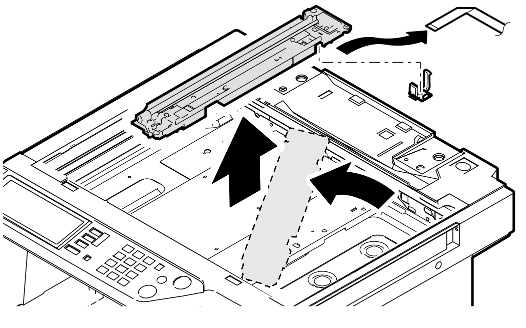


c. Lamp unit

1) Shift the lamp unit to the position shown below. Loosen the screw and remove the wire.

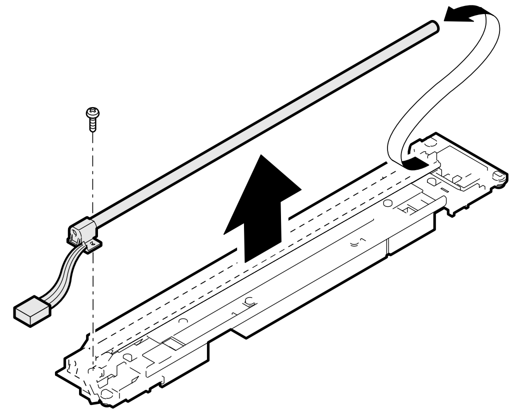


2) Rotate the lamp unit and lift it, and remove the harness holder and the harness. Remove the lamp unit.



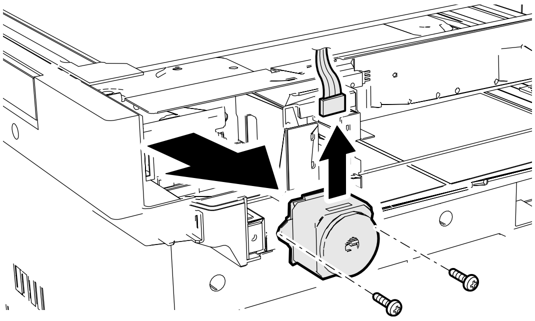
d. Xenon lamp

1) Remove the lamp unit.
2) Remove the harness and the screw, and remove the Xenon lamp.



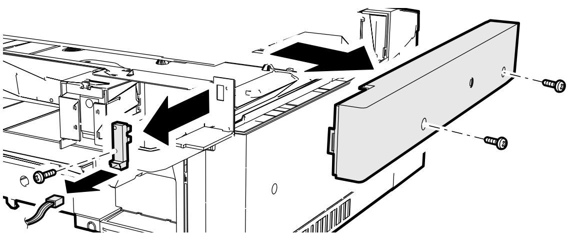
e. Scanner motor

1) Remove the upper cabinet rear unit.
2) Remove the connector, the screw, and the belt. Remove the motor.

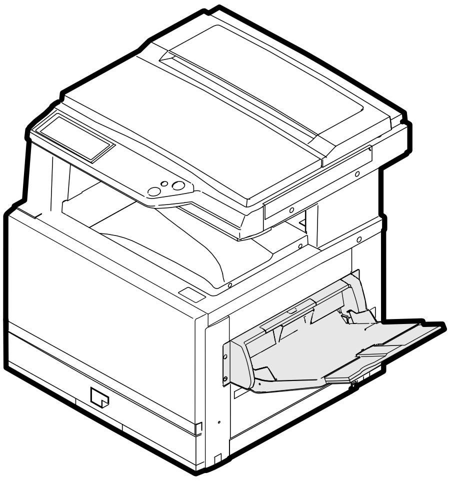


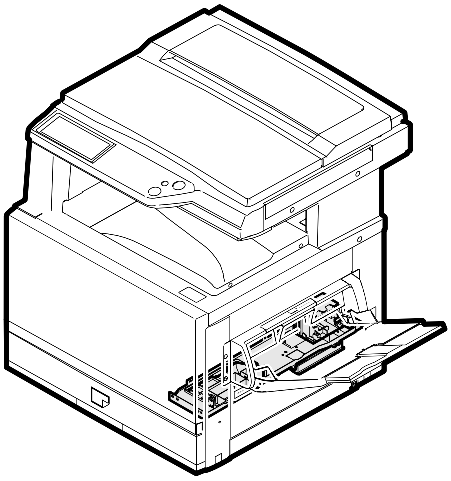
f. MHPS

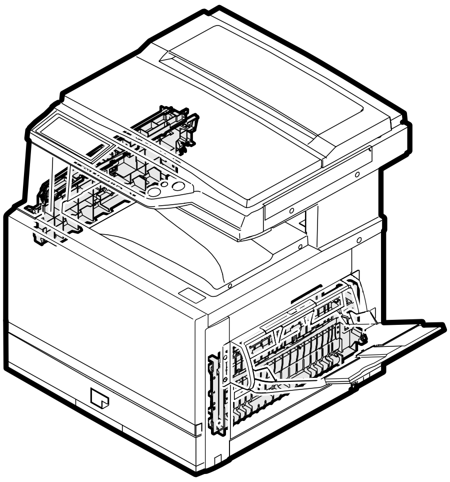
1) Remove the upper cabinet rear unit.
2) Remove the screw and remove the upper cabinet left. Remove the screw and the connector, and remove the MHPS.



5. Paper feed, paper transport, and paper exit sections







A. Operational descriptions

(1) Outline

This model is provided with a cassette paper feed tray and a manual paper feed tray as standard provision.

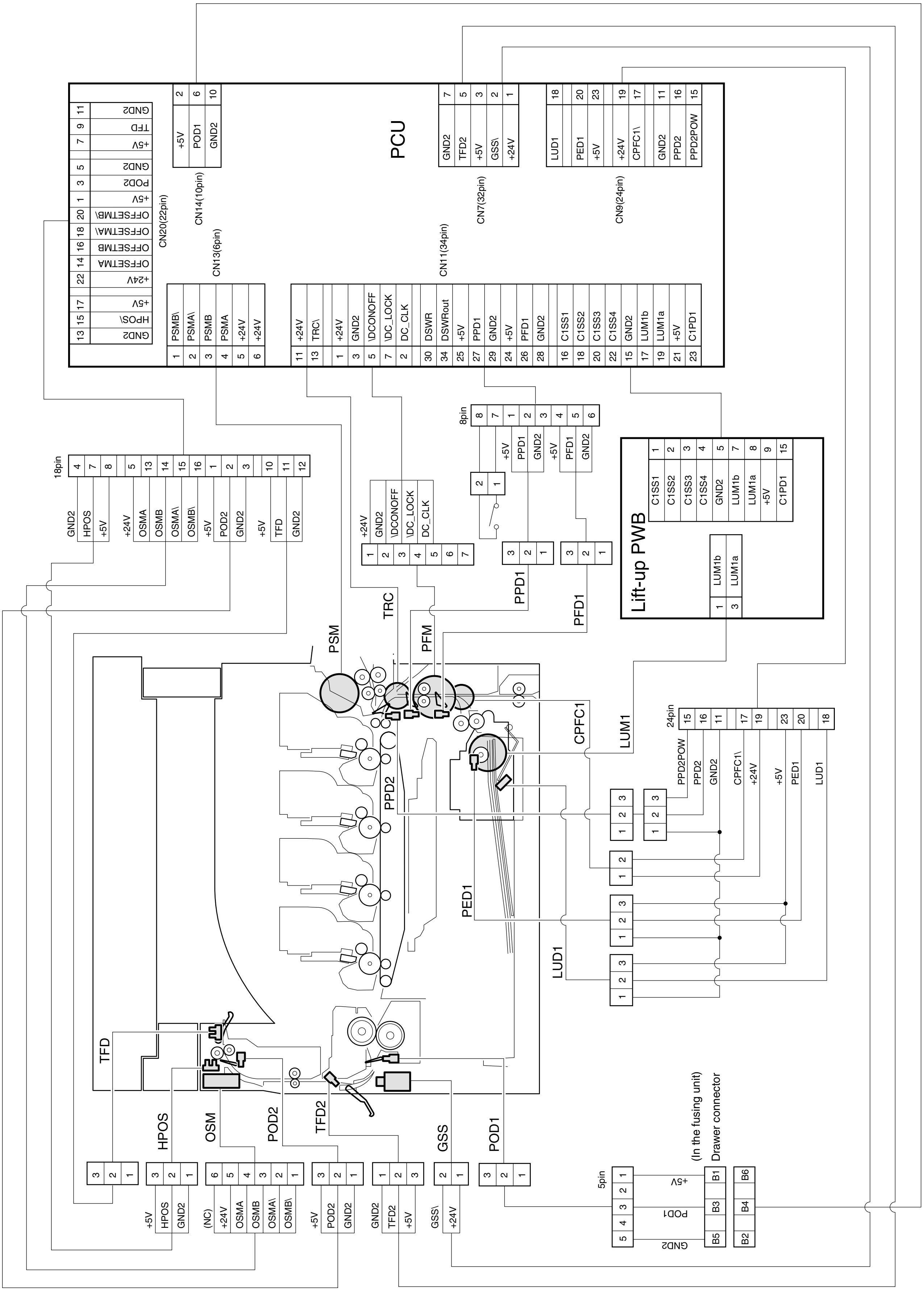
As an option, either the 3-stage paper feed cassette module (AR-D18) or the 2-stage duplex paper feed cassette module (AR-D19) can be installed.

The paper transport section transports paper from each paper feed port to the PS roller section.

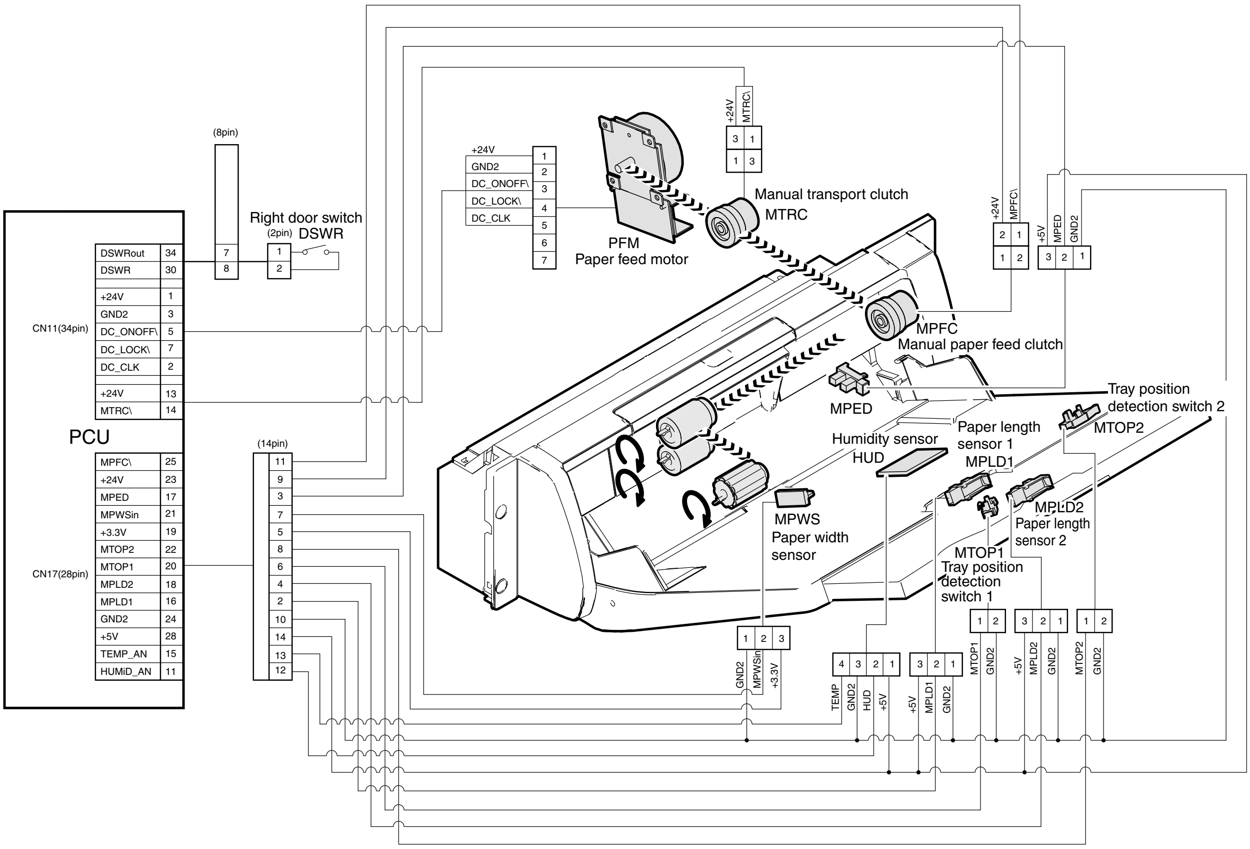
Paper with images transferred on it in the transfer section is passed to the fusing section, and discharged to the face-up tray or the face-down tray.

(2) Electrical section and mechanical section

a. Cassette paper feed, paper transport, and paper exit sections

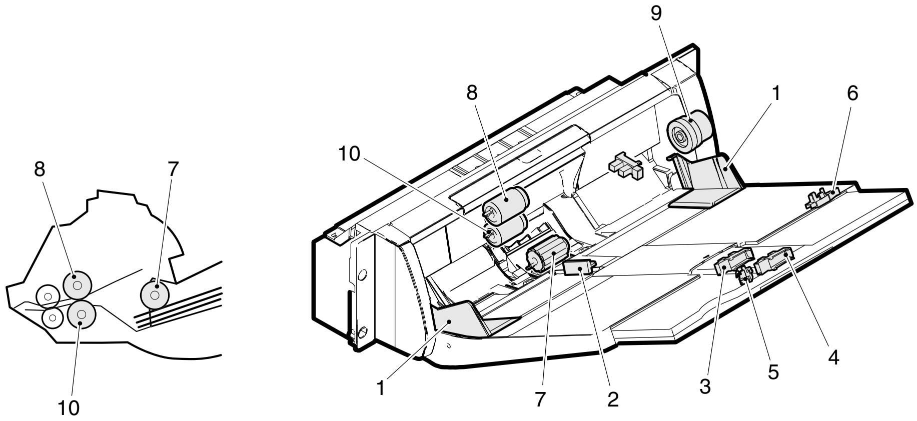

PCU
CN20(22pin)
CN14(10pin)
CN13(6pin)
CN11(34pin)
CN7(32pin)
CN9(24pin)
GND2
TFD
+5V
POD2
OFFSETMB\
OFFSETMA\
OFFSETMB
OFFSETMA
+24V
HPOS\
POD1
PSMB\
PSMA\
PSMB
PSMA
TRC\
\DCONOFF
\DC_LOCK
DC_CLK
DSWR
DSWRout
PPD1
PFD1
C1SS1
C1SS2
C1SS3
C1SS4
LUM1b
LUM1a
C1PD1
TFD2
GSS\
LUD1
PED1
CPFC1\
PPD2
PPD2POW
18pin
8pin
24pin
5pin
Lift-up PWB
PSM
TRC
PFM
PPD1
PFD1
CPFC1
LUM1
PPD2
PED1
LUD1
TFD
HPOS
OSM
POD2
TFD2
GSS
POD1
(NC)
OSMA
OSMB
OSMA\
OSMB\
HPOS
(In the fusing unit)
Drawer connector
B1
B3
B5
B6
B4
B2

b. Manual paper feed section


PCU
CN11(34pin)
DSWRout 34
DSWR 30
+24V 1
GND2 3
DC_ONOFF\ 5
DC_LOCK\ 7
DC_CLK 2
+24V 13
MTRC\ 14
CN17(28pin)
MPFC\ 25
+24V 23
MPED 17
MPWSin 21
+3.3V 19
MTOP2 22
MTOP1 20
MPLD2 18
MPLD1 16
GND2 24
+5V 28
TEMP_AN 15
HUMiD_AN 11
(8pin)
7
8
(14pin)
11
9
3
7
5
8
6
4
2
10
14
13
12
Right door switch
(2pin) DSWR
1
2
+24V
GND2
DC_ONOFF\
DC_LOCK\
DC_CLK
1
2
3
4
5
6
7
PFM
Paper feed motor
+24V
MTRC\
3 1
1 3
Manual transport clutch
MTRC
+24V
MPFC\
2 1
1 2
+5V
MPED
GND2
3 2 1
MPFC
Manual paper feed clutch
MPED
Tray position
detection switch 2
MTOP2
Humidity sensor
HUD
Paper length
sensor 1
MPLD1
MPLD2
Paper length
sensor 2
MPWS
Paper width
sensor
MTOP1
Tray position
detection
switch 1
1 2 3
GND2
MPWSin
+3.3V
4 3 2 1
TEMP
GND2
HUD
+5V
3 2 1
+5V
MPLD1
GND2
1 2
MTOP1
GND2
3 2 1
+5V
MPLD2
GND2
1 2
MTOP2
GND2

(3) Major parts and signals functions and operations

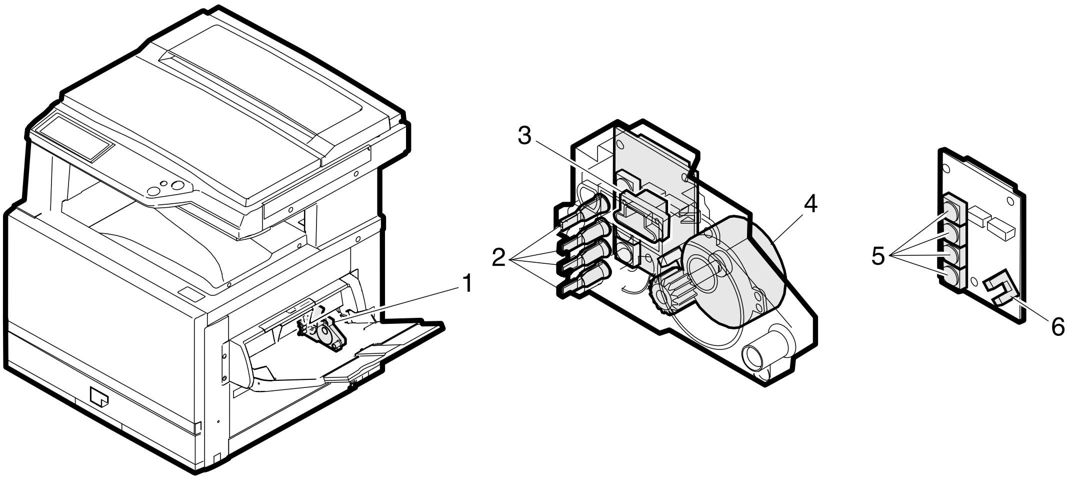
a. Manual paper feed unit


8
7
10
9
8
1
6
10
1
7
2
3
5
4

No.	Name	Code, Signal name	Function
RW	Paper detector	MPED	Detects paper empty/presence in the paper tray.
1	Paper size (width) adjuster	—	Adjusts the paper position.
2	Paper size (width) sensor	MPWS	Detects the paper width.
3	Paper size (length) detector	MPLD1	Detects the paper length.
4	Paper size (length) detector	MPLD2	Detects the paper length.
5	Tray position detector	MTOP1	Detects the paper tray position.
6	Tray position detector	MTOP2	Detects the paper tray position.
7	Paper pickup roller	—	Sends paper to the paper feed roller.
8	Manual paper feed roller	—	Feeds paper to the paper transport section.
9	Manual paper feed clutch	MPFC	Transmits the paper feed drive motor power to the manual paper feed roller.
10	Separation roller	—	Separates paper and transmits it to the paper feed unit.
RW	Manual transport clutch	—	Transmits the paper feed motor power to the manual paper feed unit.
RW	Paper feed motor	—	Drives the paper feed section and the manual paper feed unit.

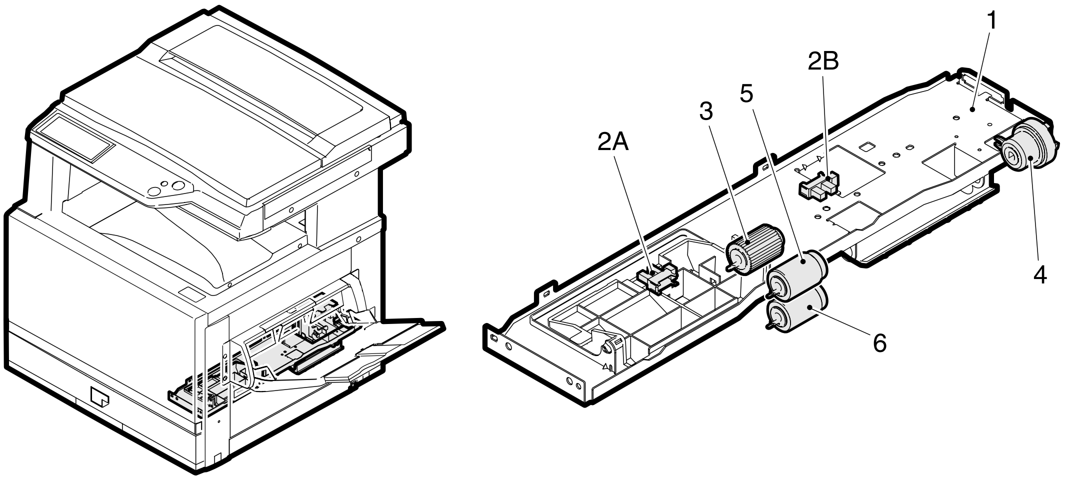
RW: Abbreviation of Related Wiring, which means the said load is specified in the related figure of the mechanical and the electrical sections.

b. Paper tray lift unit



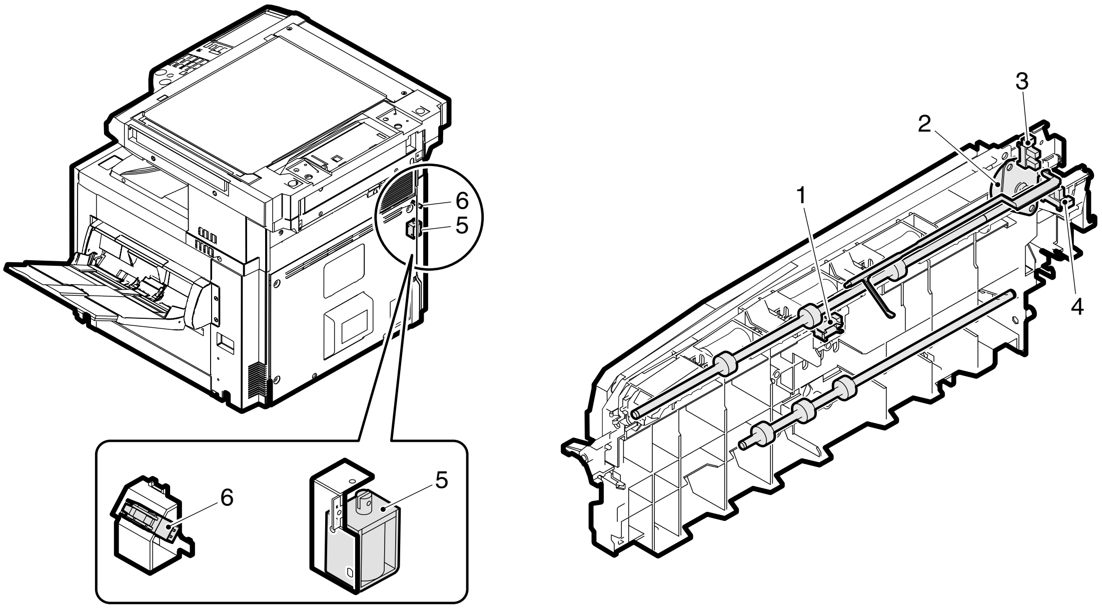
No.	Name	Code, Signal name	Function
1	Paper tray lift unit	—	Drives the paper tray lift plate.
2	Paper size detection actuator	—	Transmits the status data (âöìþ) of the paper size block to the paper size detector.
3	Paper tray lift unit control PWB	—	Controls the paper tray lift unit.
4	Lift motor	LUMx	Drives the lift plate.
5	Paper size detector (switch)	CxSSx	Detects the paper size set by the paper size set block.
6	Lift position sensor	CxPDx	Detects the lift plate position.

c. Paper feed unit



No.	Name	Code, Signal name	Function
1	Paper tray paper feed unit	—	Feeds paper from the paper tray to the transport section.
2A	Paper empty detector	PEDx	Detects paper empty in the paper tray.
2B	Paper upper limit detector	LUDx	Detects the paper upper limit position. (Keeps the friction between the paper pickup roller and paper at a constant level.)
3	Paper pickup roller	—	Feeds paper to the paper feed roller.
4	Paper feed clutch	CPFCx	Controls ON/OFF of the paper feed roller.
5	Paper feed roller	—	Feeds paper to the paper transport section.
6	Separation roller	—	Separates paper to prevent against double feed.

d. Paper exit section



No.	Name	Code, Signal name	Function
1	Paper exit sensor	POD2	Detects discharged paper.
2	Offset motor	OSM	Drives the paper exit offset.
3	Shifter home position sensor	HPOS	Detects the offset home position.
4	FD paper exit full sensor	TFD	Detects the face-down paper exit tray full.
5	Paper exit switch gate solenoid	GSS	Drives the face-up/down switch gate.
6	FU paper exit full sensor		

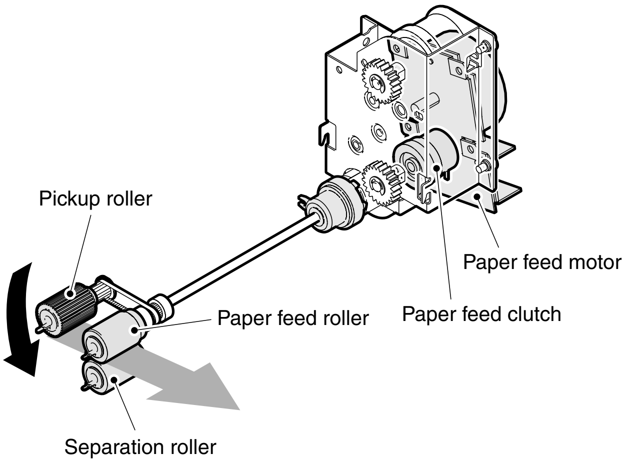
(4) Operational descriptions

a. Paper feed tray section operation

The paper pickup roller moves up and down to press paper and separates the top paper, which is fed to the paper feed roller.

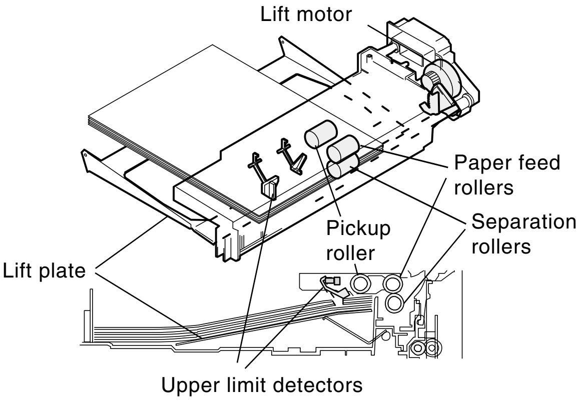
The paper feed roller feeds paper to the paper transport section. The separation roller prevents against double feed.

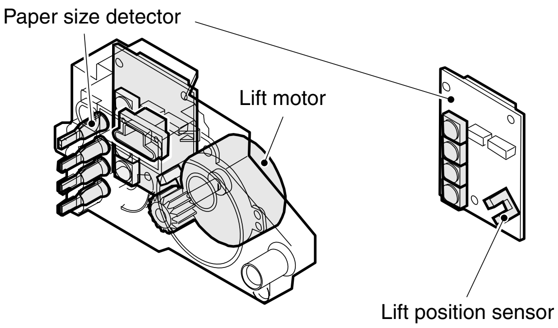
Up and down movement of the pickup roller is driven by the pickup solenoid, and ON/OFF control of the pickup roller and the paper feed roller is performed by the paper feed clutch.


Pickup roller
Paper feed motor
Paper feed roller
Paper feed clutch
Separation roller

The paper lift plate lifts paper to control the upper limit position of paper so that the pressure between the top paper and the pickups roller remains constant. Lifting is performed by the lift motor and the lift gear.

The lift position is detected by the paper upper limit detector to control the pressure between the top paper and the pickup roller.


Lift motor
Paper feed rollers
Separation rollers
Pickup roller
Lift plate
Upper limit detectors


Paper size detector
Lift motor
Lift position sensor

The paper feed tray is provided with the paper size detection block, and the status (âõìþ) of this block is detected with the combination of ON/OFF of the four paper size detectors to recognize the paper size.

Relationship between the paper size detector and the paper size

Paper size detector				Paper size		
				Destination		
CSS4	CSS3	CSS2	CSS1	Japan	AB series	Inch series
ON	OFF	OFF	ON	A3	A3	11 x 17
OFF	OFF	ON	ON	B4	B4	8.5 x 14
ON	OFF	ON	OFF	A4R	A4R	11 x 8.5R
OFF	ON	ON	OFF	A4	A4	11 x 8.5
OFF	ON	ON	ON	B5R	B5	INVOICE
OFF	ON	OFF	ON	B5	A5	FOOLSCAP
ON	ON	ON	OFF	A5	11 x 8.5	A4
ON	ON	OFF	OFF	EXTRA	EXTRA	EXTRA
Patterns other than above				Recognized that the paper tray is not inserted.		

EXTRA: Operates with the paper size set by the user program.

The lift position sensor detects the lift plate lower limit position. Then lift-up operation is started, and the rotation of the lift motor up to detection of the upper limit by the paper upper limit detector is used to calculate the paper remaining quantity.

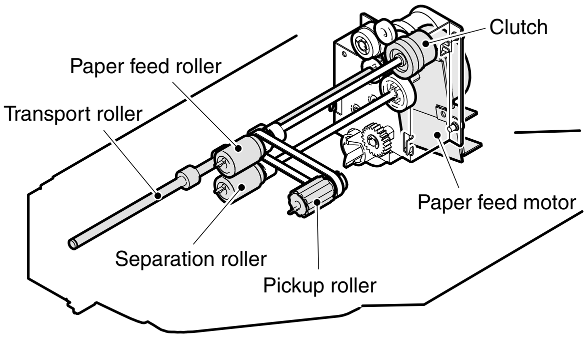
b. Manual paper feed section operation

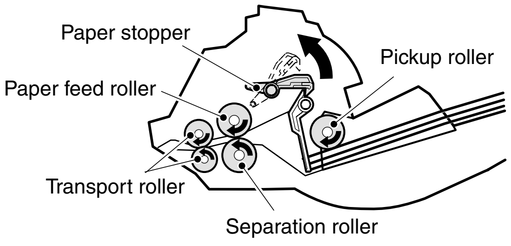
The paper pickup roller moves up and down to press paper and separates the top paper, which is fed to the paper feed roller.

The paper feed roller feeds paper to the paper transport section. The separation roller prevents against double feed.

The manual paper feed clutch controls ON/OFF of the pickup roller and the paper feed roller.

The manual transport roller transports paper to the resist roller.


Clutch
Paper feed roller
Transport roller
Paper feed motor
Separation roller
Pickup roller

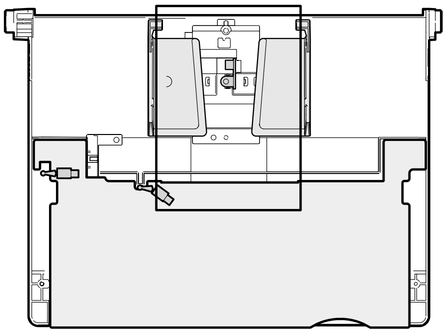

Paper stopper
Pickup roller
Paper feed roller
Transport roller
Separation roller

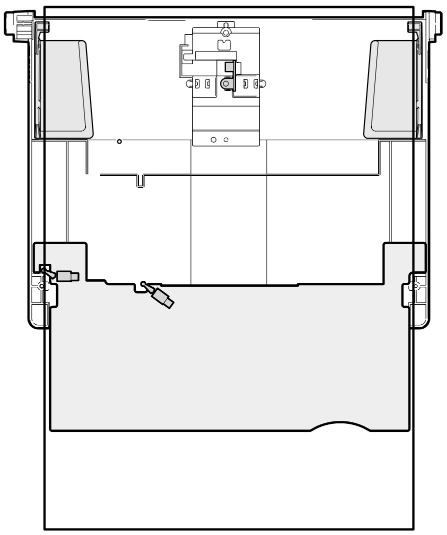
The paper size is detected by the paper length detector and the paper width sensor.

A volume-type sensor is used as the paper width sensor. The resistance varies according to variation of the paper guide position to detect the paper width.

The tray position detector detects that the paper tray is set to the maximum length position or to the minimum length position.

When the paper tray is set to the maximum length position, the paper length detector is forcibly turned ON. This is to recognize it.

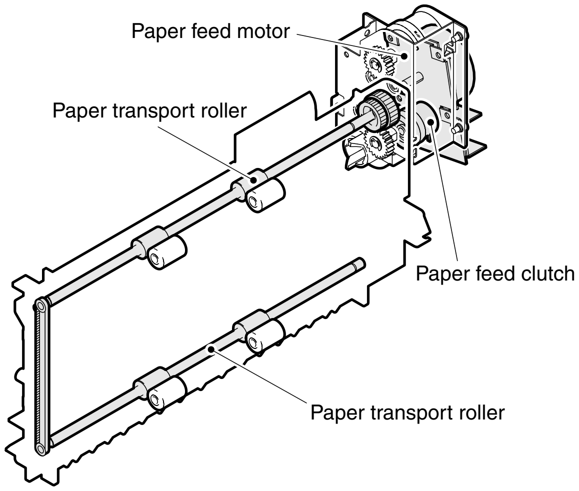




c. Paper transport section

This section transports paper from each paper feed section to the transfer section (resist roller) by two transport rollers.

The paper transport clutch controls ON/OFF of each transport roller.

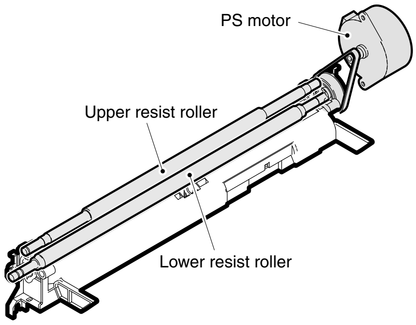

Paper feed motor
Paper transport roller
Paper feed clutch
Paper transport roller

d. Paper resist section

The resist roller controls the relative position of the transported paper and the transfer image.

The resist roller is driven by the resist roller motor.

The relative position of paper and the transfer image is determined by the ON timing of the resist roller motor.



e. Others

* The paper transport section is provided with two paper detectors, which perform the following functions:

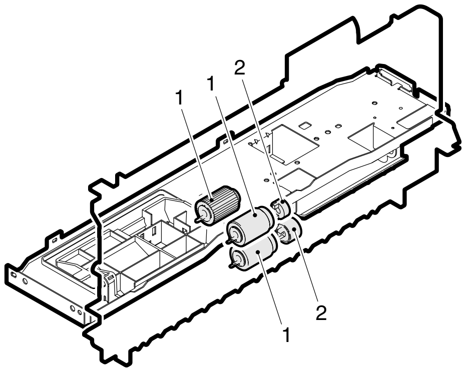
1) Paper jam detection
2) Output of the reference signal for the operating timing of each load

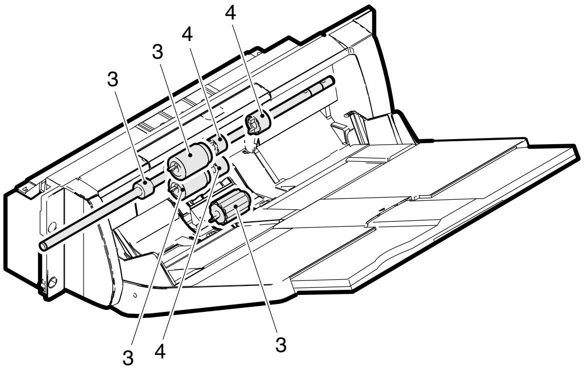
B. Disassembly/assembly/maintenance

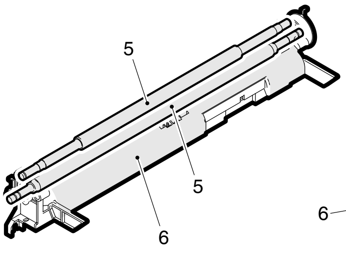
(1) Paper feed/transport sections maintenance target parts

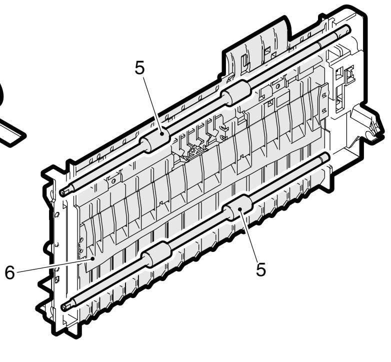
×: Check (Clean, replace, or adjust as necessary.) ❍: Clean ▲: Replace ∆: Adjust ☆: Lubricate ❏: Shift position

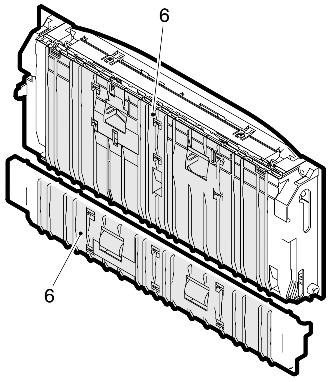
Unit name	No.	Part name	When calling	50K	100K	150K	200K	250K	300K	350K	400K	Remark
Paper feed section	1	Paper feed rollers in the cassette section	❍	❍	×	❍	×	❍	×	❍	×	Replace at the specified count at each paper feed port or within 2 years.
	2	Torque limiter	×		×		×		×		×	
	3	Paper feed rollers in the manual paper feed section	❍	×	×	×	×	×	×	×	×	Replace at the specified count at each paper feed port or within 2 years.
	4	Torque limiter	×	×	×	×	×	×	×	×	×	
Transport section	5	Transport rollers	❍	❍	❍	❍	❍	❍	❍	❍	❍	
	6	Transport paper guide	❍	❍	❍	❍	❍	❍	❍	❍	❍	









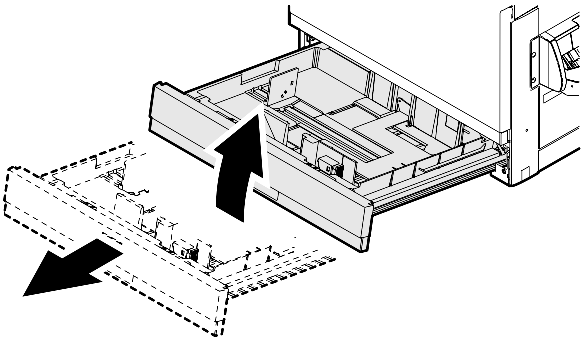


(2) Maintenance parts and major parts replacement

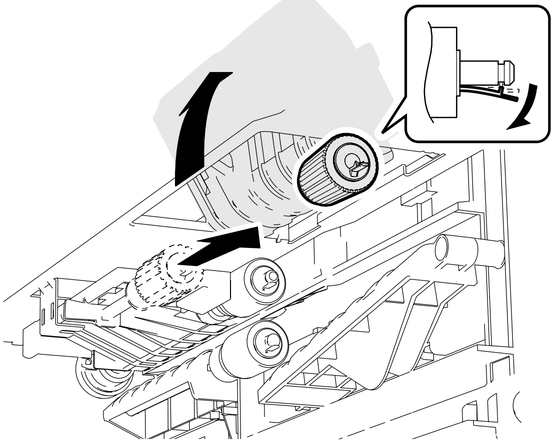
a. Cassette paper feed

<1> Pickup roller

1) Remove the cassette.



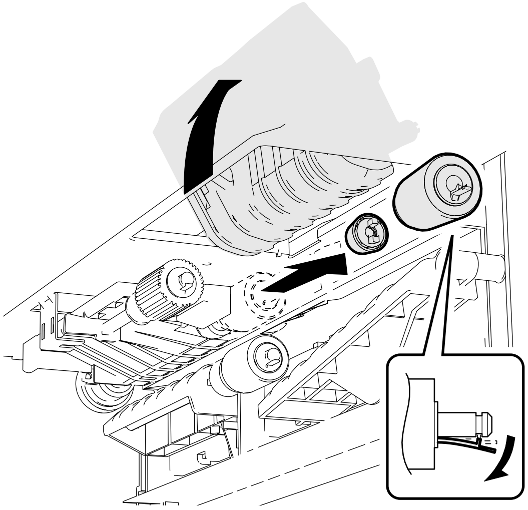
2) Disengage the pawl, and remove the pickup roller.



Note: Do not remove the transfer belt unit.

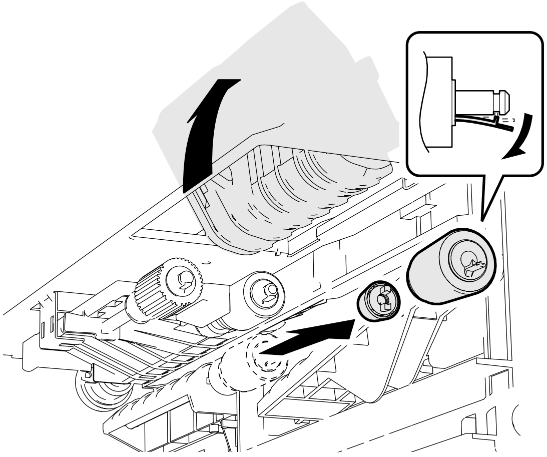
<2> Paper feed roller, torque limiter

1) Remove the cassette.
2) Disengage the pawl, and remove the paper feed roller.



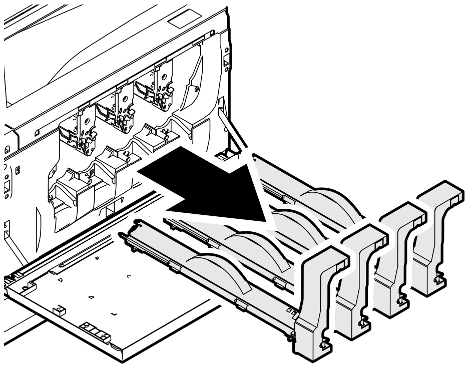
<3> Paper separation roller, torque limiter

1) Remove the cassette.
2) Disengage the pawl, and remove the paper separation roller.

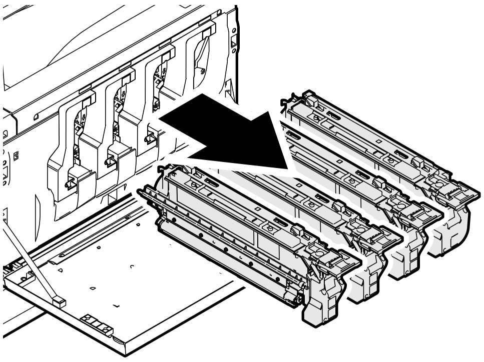


<4> Cassette paper feed unit

1) Open the front cabinet, and remove the drum unit.

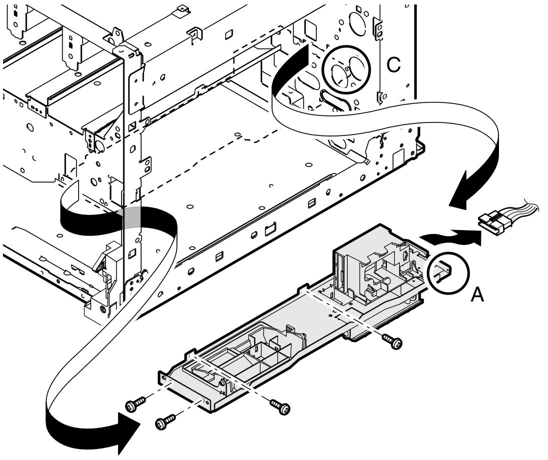


2) Remove the developing unit.



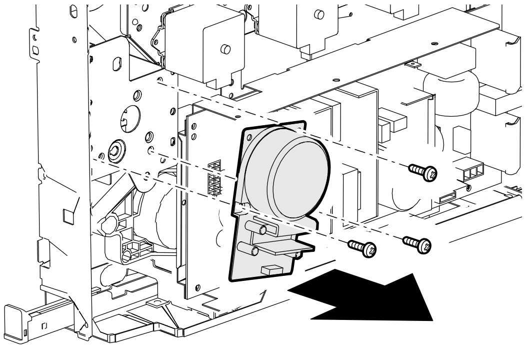
3) Remove the front cabinet and the front frame cover.
4) Remove the multi manual paper feed unit.
5) Remove the connection right cabinet, the rear cabinet, and the rear right cabinet.
6) Remove the screw and the paper feed unit. Remove the connector.

∗ When assembling, fit the positioning pin A with section C.



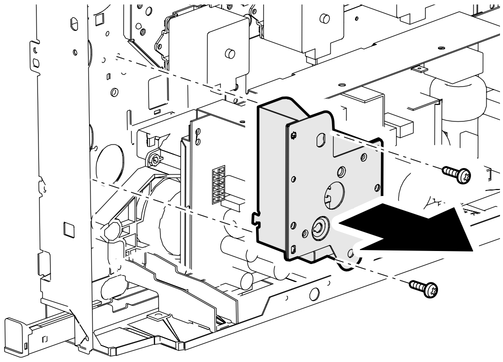
<5> Paper feed drive motor

1) Remove the screw, the rear cabinet, the rear right cabinet, and the connection right cabinet B.
2) Remove the screw, and remove the paper feed drive motor.



<6> Paper feed drive unit

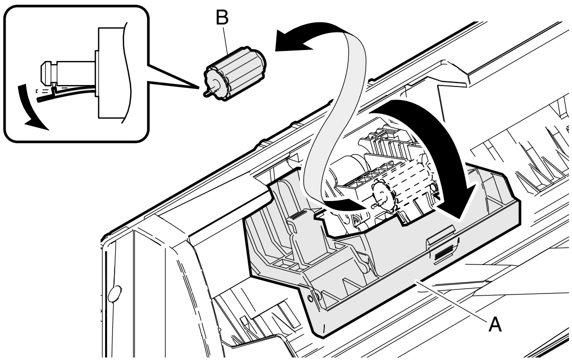
1) Remove the harness and the screw, and remove the paper feed drive unit.



b. Multi manual paper feed

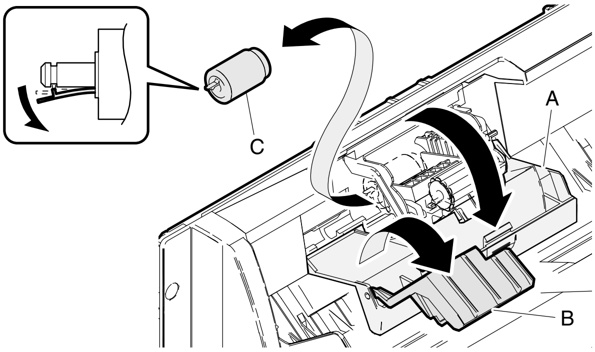
<1> Pickup roller

1) Open the arm cover (A). Disengage the pawl, and remove the pickup roller (B).



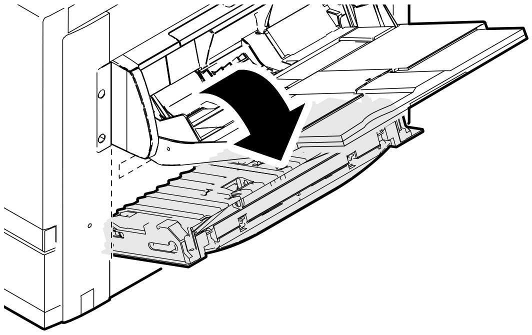
<2> Paper feed roller

1) Open the arm cover (A), open the auxiliary PG (B), and remove the paper feed roller (C).

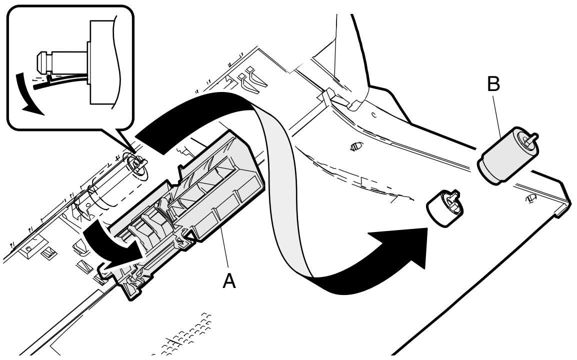


<3> Paper separation roller

1) Open the vertical transport guide.

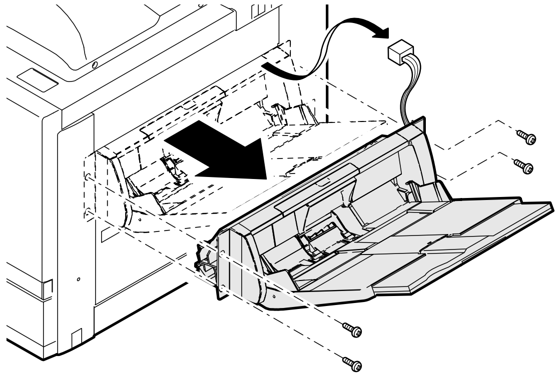


2) Open the maintenance cover (A) from the bottom of the multi paper feed unit. Disengage the pawl and remove the paper feed separation roller (B).



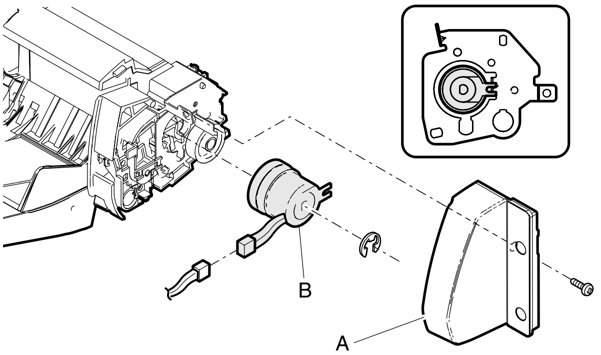
<4> Multi manual paper feed unit

1) Remove the screw and the harness, and remove the multi paper feed unit.



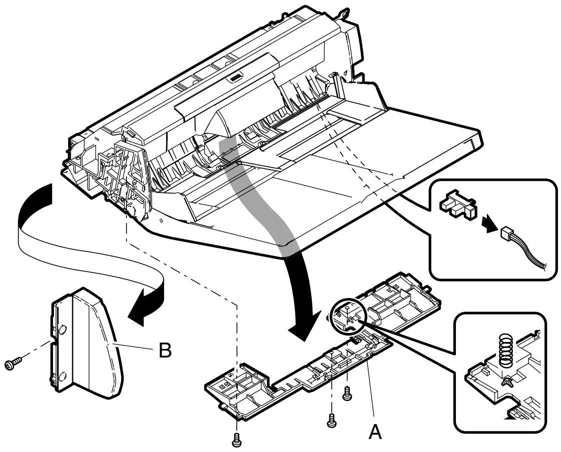
<5> Paper feed clutch

1) Remove the screw and the cover (A). Remove the connector and the E-ring, and remove the paper feed clutch (B).



<6> Transport roller

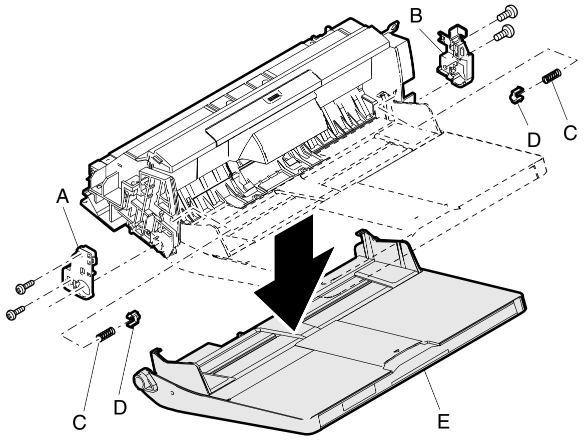
1) Remove the bottom lid (A), remove the connector and the screw, and remove the cover (B).



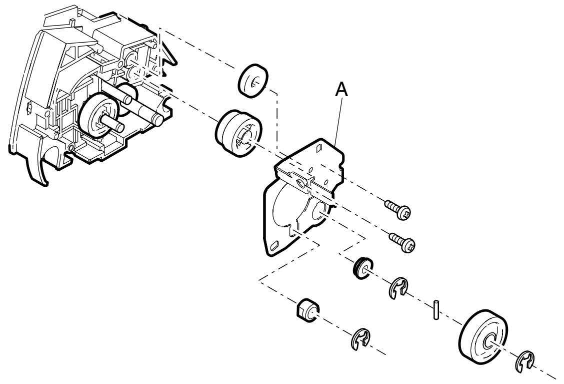
∗ When assembling, fit the cover projection with the spring.

2) Remove the screw, and remove (A) and (B).

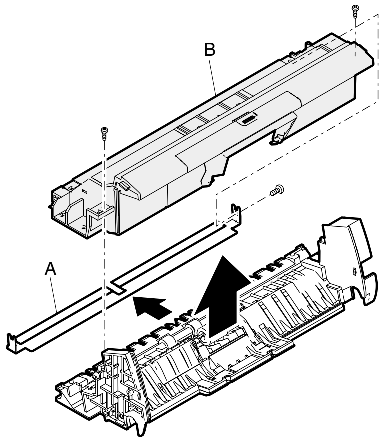
   ∗ When assembling, first attach (A), then attach (C) and (D).



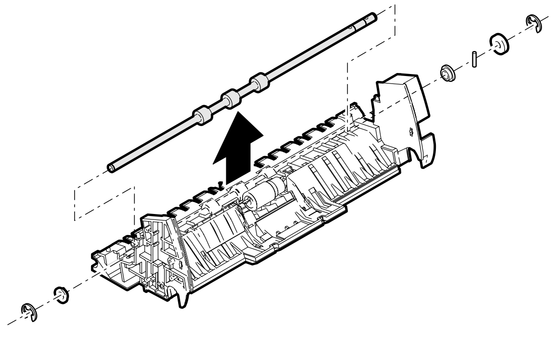
3) Remove the screw and the E-ring, and remove the angle (A) and the gear.



4) Remove the screw, and remove (A) and the manual upper unit (B).



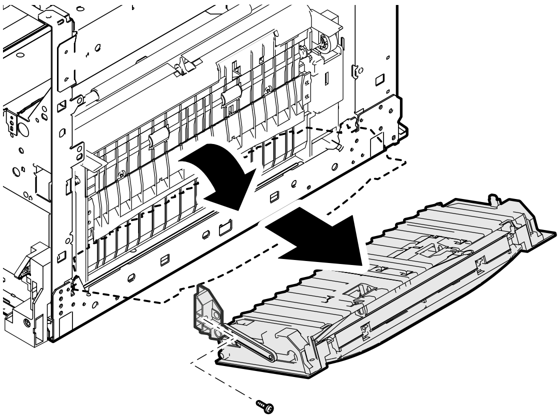
5) Remove the E-ring, the gear, and the bearing, and remove the transport roller.



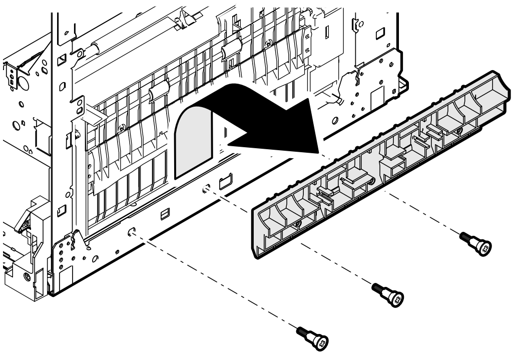
c. Transport section

<1> Vertical transport unit

1) Remove the drum and the developing unit.
2) Remove the front cabinet.
3) Remove the front frame cover.
4) Remove the multi manual paper feed unit.
5) Remove the rear cabinet, the connection right cabinet, the rear right cabinet, the front right cabinet, and the right lower cabinet.
6) Open the vertical transport guide. Remove the screw and remove the vertical transport guide unit.

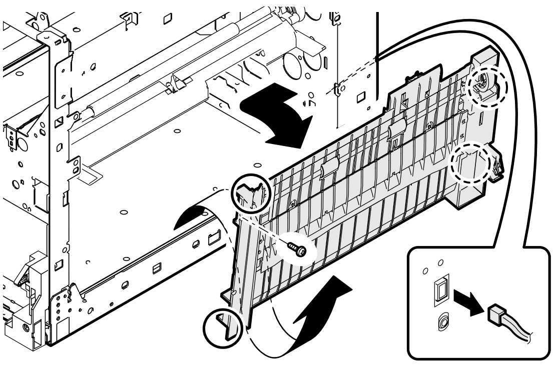


7) Remove the screw, and remove the vertical transport lower unit.



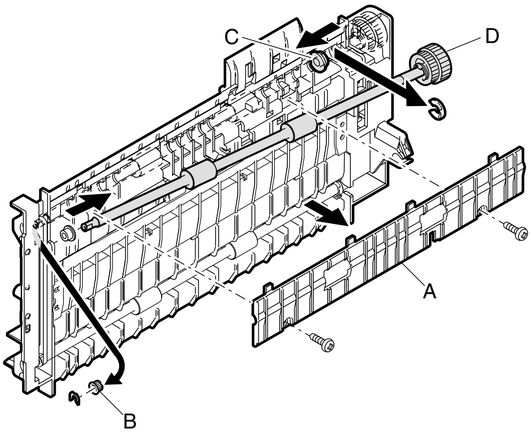
8) Remove the paper feed drive motor, and remove the connector on the rear side. Remove the screw, and shift the vertical transport unit to the left to remove.

   * When assembling, engage the four bosses indicated with ○ in the figure below.

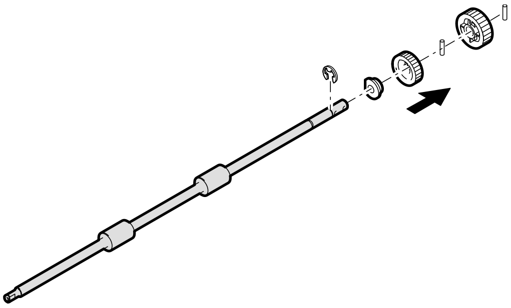


<2> Transport roller 2

1) Remove the vertical transport unit.
2) Remove the screw, and remove the paper guide (A).
3) Remove the resin ring, and remove the pulley (B) from the belt.
4) Remove the resin E-ring, slide the bearing (C), and remove the transport roller 2 unit (D).

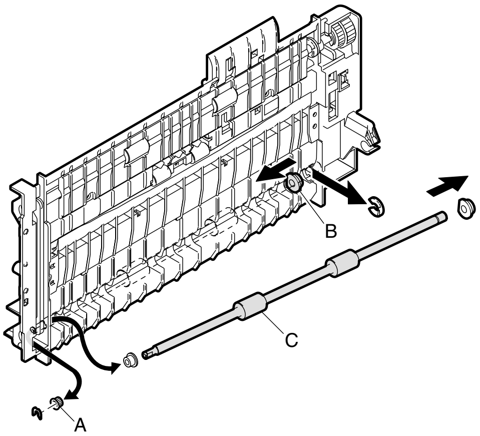


5) Remove the E-ring and parts, and remove the transport rollers.



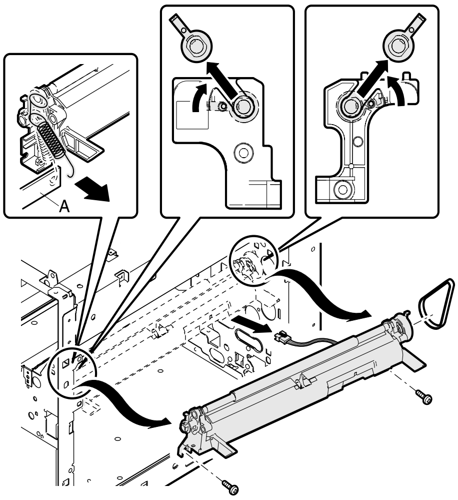
<3> Transport roller 1

1) Remove the vertical transport unit.
2) Remove the resin ring. Remove the pulley (A) from the belt.
3) Remove the resin E-ring, slide the bearing (B), and remove the transport roller 1 (C).



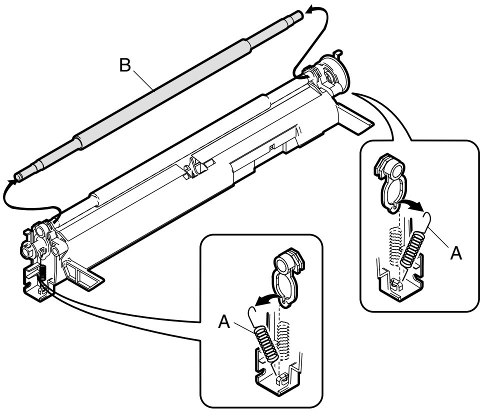
<4> PS unit

1) Remove the vertical transport unit.
2) Remove the screw and the spring. Release the lock. Remove the belt and remove the PS unit.
   - ∗ When assembling, attach from the left with avoiding the plate in section A.



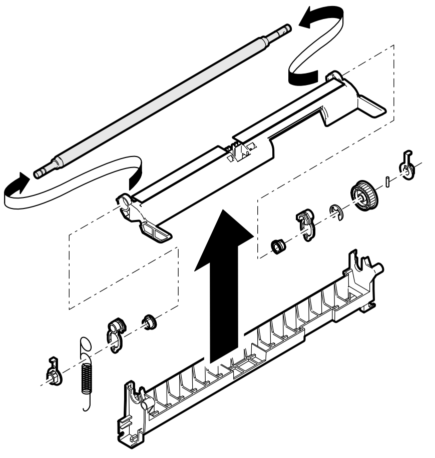
<5> Upper resist roller

1) Remove the vertical transport unit.
2) Remove the PS unit.
3) Remove the spring (A), and remove the upper resist roller (B).



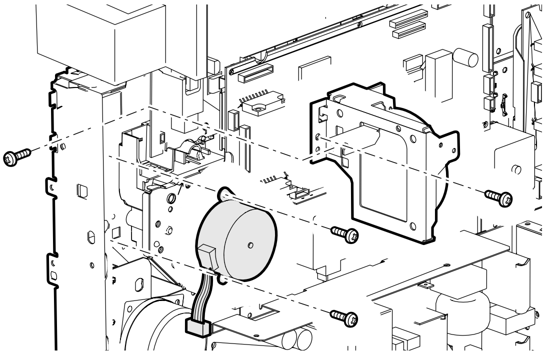
<6> Lower resist roller

1) Remove the vertical transport unit.
2) Remove the PS unit.
3) Remove the upper resist roller.
4) Remove the parts and remove the lower resist roller.



<7> PS motor

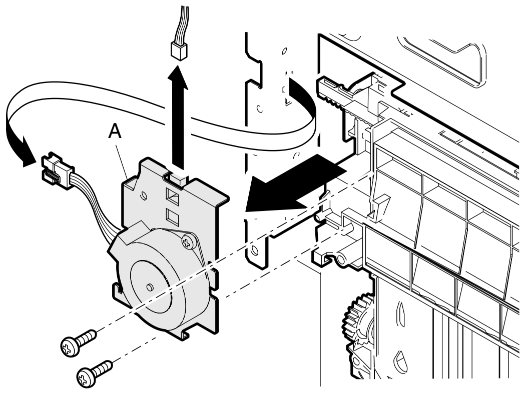
1) Remove the rear cabinet, the connection right cabinet, and the rear right cabinet.
2) Remove the connector and the screw, and remove the process exhaust fan unit. Remove the connector and the screw, and remove the PS motor.



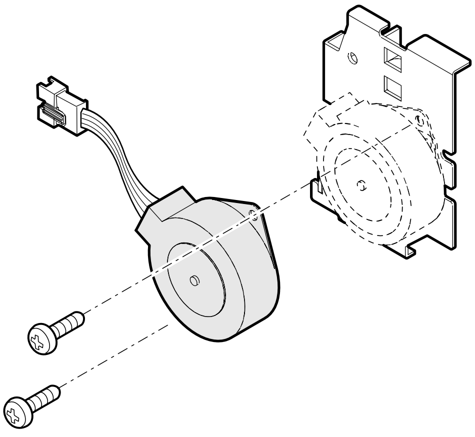
d. Paper exit section

<1> Slide drive motor

1) Open the left cabinet.
2) Remove the FD connection cabinet.
3) Remove the connector and the screw, and remove the motor unit.

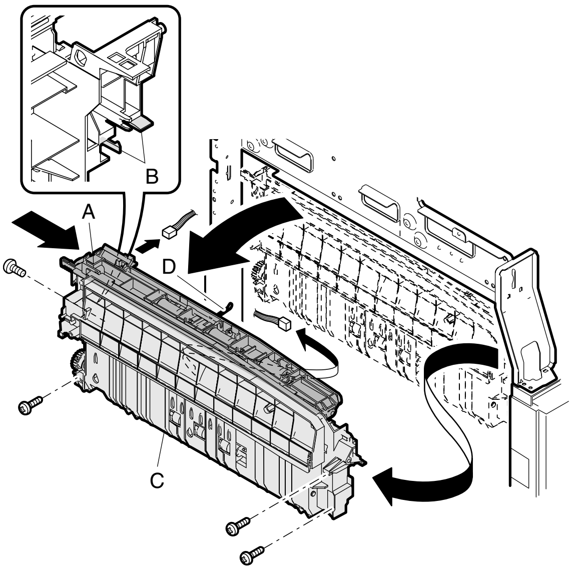


4) Remove the connector and the screw, and remove the motor (A).



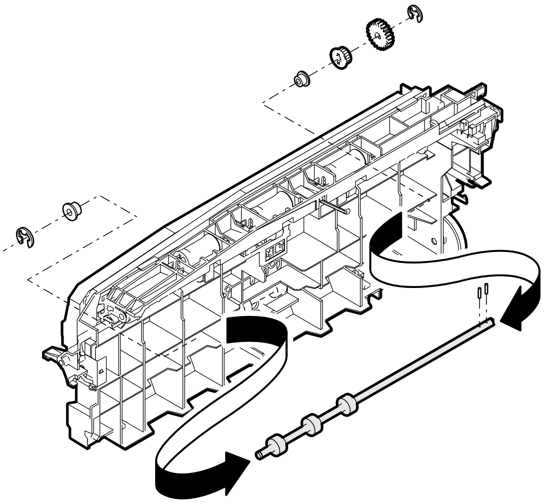
<2> FD paper exit unit

1) Remove the rear cabinet, the rear cabinet upper, the left cabinet, the rear left cabinet lid, the rear left cabinet, and the front cabinet upper.
2) Remove the motor unit.
3) Slide section (A) to the front side. Remove the screw, and disengage the pawl in section (B). Remove the FD paper exit unit (C) from the rear side and remove the connector.
   * When assembling, attach from the front side.
   * When assembling, be careful not to damage the actuator (D).



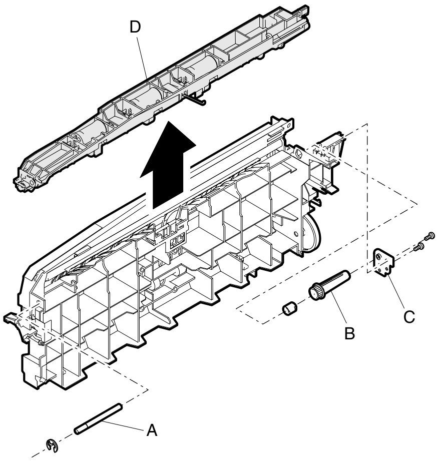
<3> FD paper exit roller B

1) Remove the cabinet.
2) Remove the paper exit unit.
3) Remove the E-ring, the bearing, and the gear. Remove the FD paper exit roller.

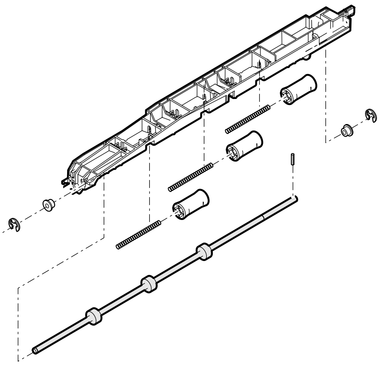


<4> FD paper exit roller A

1) Remove the cabinet.
2) Remove the paper exit unit.
3) Remove the E-ring, (A), the screw, (B), (C), and the bearing. Remove the unit (D).

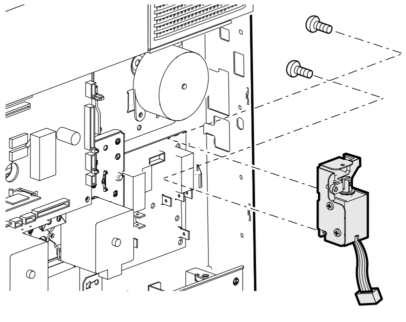


4) Remove the E-ring and the bearing, and remove the FD paper exit roller (A).



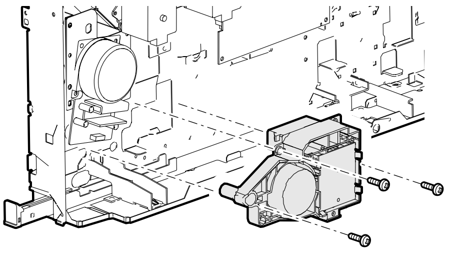
e. Gate solenoid unit

1) Open the left door, and remove the rear cabinet and the rear left cabinet.
2) Remove the driver PWB unit.
3) Remove the connector and the screw, and remove the gate solenoid unit.

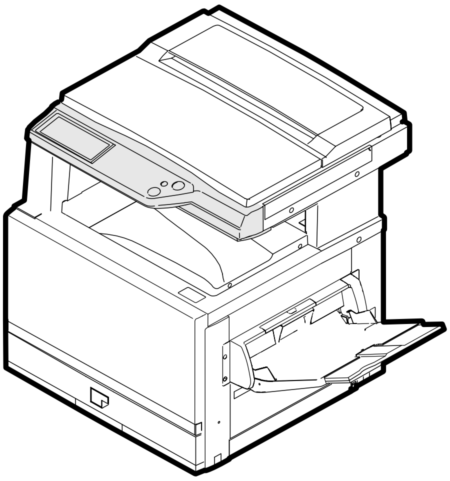


f. Lift-up unit

1) Remove the rear cabinet and the rear right cabinet.
2) Remove the power PWB unit.
3) Remove the connector and the screw, and remove the lift-up unit.



6. Operation panel



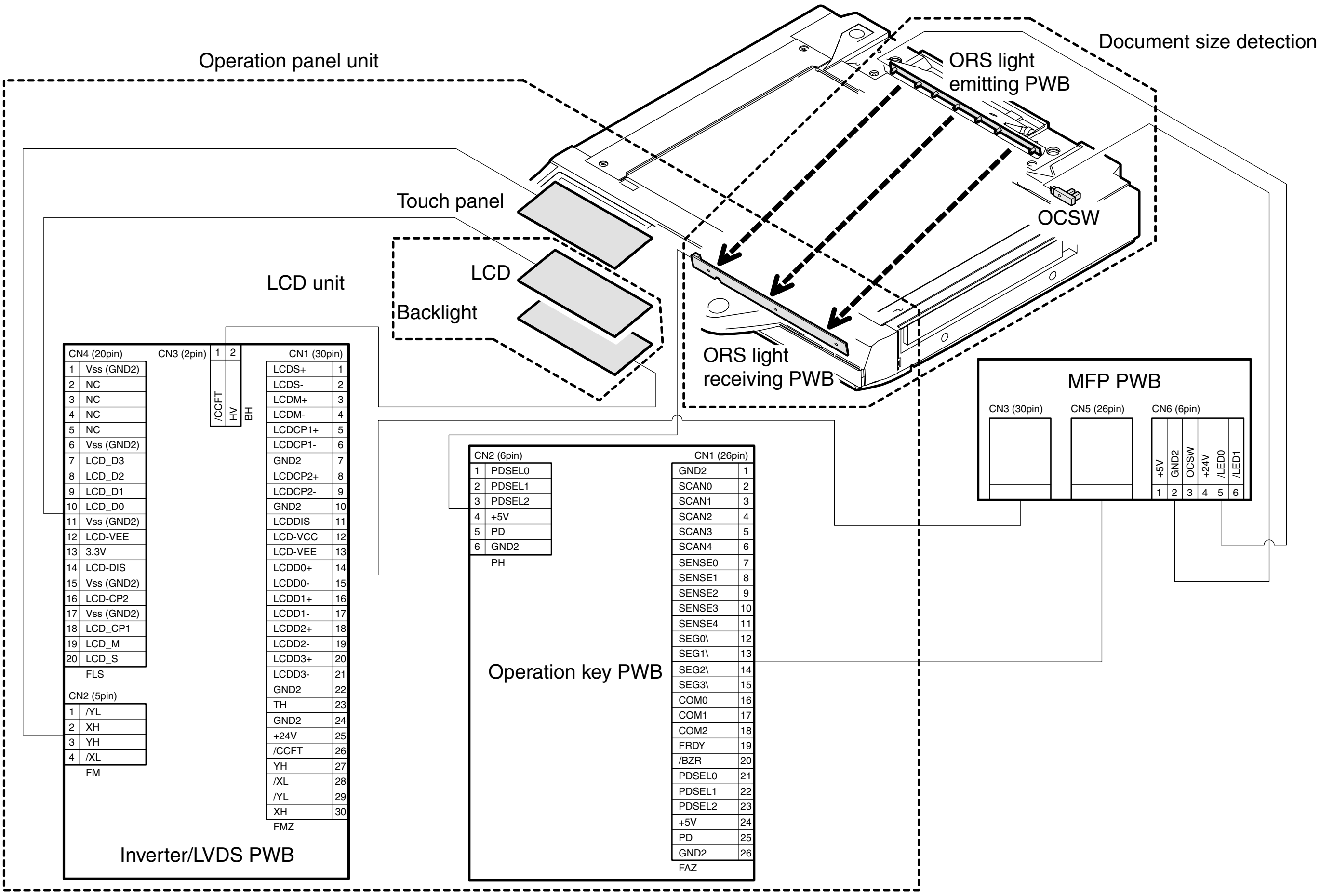
A. Operational descriptions

(1) Outline

The operation panel unit is composed of the operation key PWB, the inverter/LVDS PWB, the LCD unit, and the operation keys, and is used to operate the machine and to set and display the machine status.

The operation key PWB is connected to the ORS light receiving PWB for detecting the document size. It receives light from the ORS light emitting PWB attached to the rear frame, detecting the document size.

(2) Electrical section and mechanical section


Operation panel unit
Document size detection
ORS light emitting PWB
Touch panel
OCSW
LCD unit
LCD
Backlight
ORS light receiving PWB
MFP PWB
CN3 (30pin)
CN5 (26pin)
CN6 (6pin)
1 +5V
2 GND2
3 OCSW
4 +24V
5 /LED0
6 /LED1
CN4 (20pin)
1 Vss (GND2)
2 NC
3 NC
4 NC
5 NC
6 Vss (GND2)
7 LCD_D3
8 LCD_D2
9 LCD_D1
10 LCD_D0
11 Vss (GND2)
12 LCD-VEE
13 3.3V
14 LCD-DIS
15 Vss (GND2)
16 LCD-CP2
17 Vss (GND2)
18 LCD_CP1
19 LCD_M
20 LCD_S
FLS
CN2 (5pin)
1 /YL
2 XH
3 YH
4 /XL
FM
CN3 (2pin)
1 /CCFT
2 HV
BH
CN1 (30pin)
LCDS+ 1
LCDS- 2
LCDM+ 3
LCDM- 4
LCDCP1+ 5
LCDCP1- 6
GND2 7
LCDCP2+ 8
LCDCP2- 9
GND2 10
LCDDIS 11
LCD-VCC 12
LCD-VEE 13
LCDD0+ 14
LCDD0- 15
LCDD1+ 16
LCDD1- 17
LCDD2+ 18
LCDD2- 19
LCDD3+ 20
LCDD3- 21
GND2 22
TH 23
GND2 24
+24V 25
/CCFT 26
YH 27
/XL 28
/YL 29
XH 30
FMZ
Inverter/LVDS PWB
CN2 (6pin)
1 PDSEL0
2 PDSEL1
3 PDSEL2
4 +5V
5 PD
6 GND2
PH
CN1 (26pin)
GND2 1
SCAN0 2
SCAN1 3
SCAN2 4
SCAN3 5
SCAN4 6
SENSE0 7
SENSE1 8
SENSE2 9
SENSE3 10
SENSE4 11
SEG0\ 12
SEG1\ 13
SEG2\ 14
SEG3\ 15
COM0 16
COM1 17
COM2 18
FRDY 19
/BZR 20
PDSEL0 21
PDSEL1 22
PDSEL2 23
+5V 24
PD 25
GND2 26
FAZ
Operation key PWB

(3) major parts functions and operations

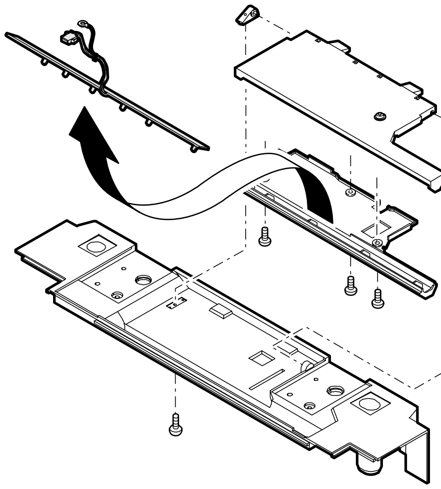
No.	Name	Code, signal name	Function
RW	Operation key PWB	—	Detects a pressed key on the operation panel.
RW	Inverter/LVDS PWB	—	Drives the LCD and the backlight, and controls the touch panel.
RW	ORS light receiving PWB	—	Receives light from the ORS light emitting PWB to detect the document size.
RW	ORS light emitting PWB	—	Emits light for detecting the document size.
RW	OC switch	OCSW	Timing switch for detecting the document size

RW: Abbreviation of Related Wiring, which means the said load is specified in the related figure of the mechanical and the electrical sections.

B. Disassembly/assembly/maintenance

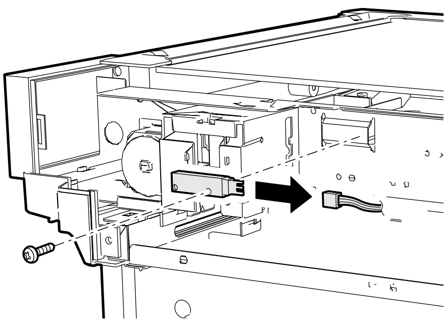
a. ORS light emitting PWB

1) Remove the upper cabinet rear cover and the upper cabinet rear unit.
2) Remove the screw, and remove the document size sensor unit. Remove the screw and the document size sensor, and remove the ORS light emitting PWB.



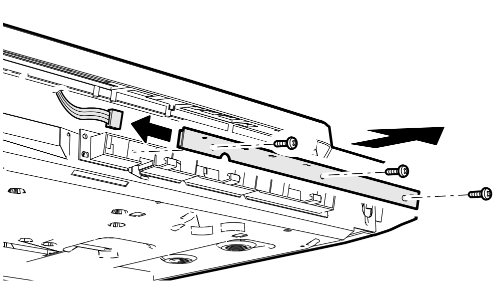
b. OCSW

1) Remove the upper cabinet rear cover and the upper cabinet rear unit.
2) Remove the connector and the screw, and remove the OCSW.



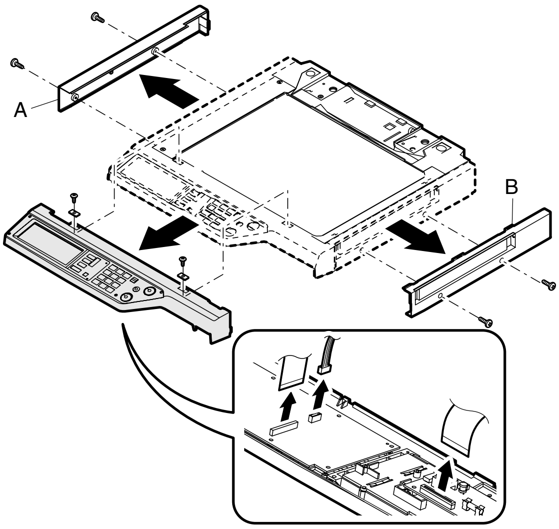
c. ORS light receiving PWB

1) Remove the FD connection cabinet, the front cabinet upper, the FD paper exit port cabinet, and the operation panel plate.
2) Remove the connector and the screw, and remove the ORS light receiving PWB.

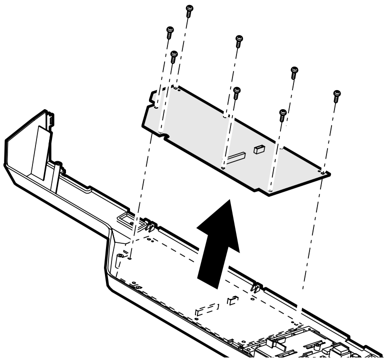


d. Operation key PWB

1) Remove the FD connection cabinet, the front cabinet upper, the FD paper exit port cabinet, and the operation panel plate.
2) Remove the screw, and remove A and B.
3) Remove the screw and the connector, and remove the operation unit.

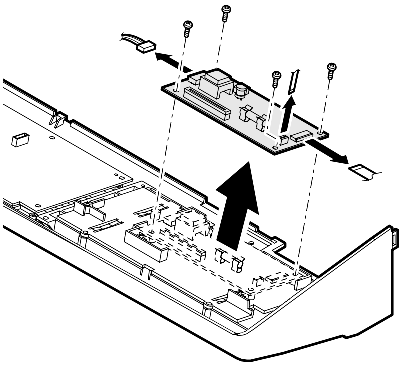


4) Remove the screw and remove the operation key PWB.



e. Inverter/LVDS PWB

1) Remove the FD connection cabinet, the front cabinet upper, the FD paper exit port cabinet, and the operation panel plate.
2) Remove the connector and the screw, and remove the inverter/LVDS PWB.

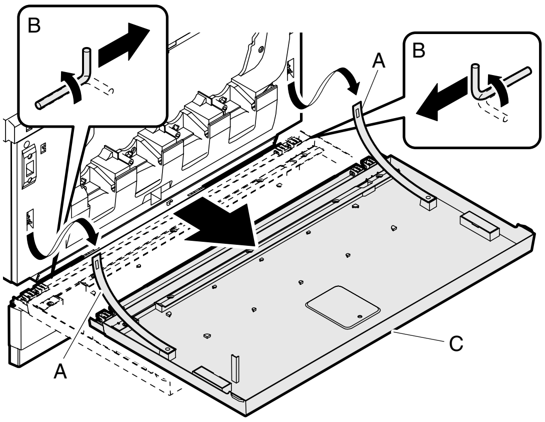


7. External fitting

A. Disassembly

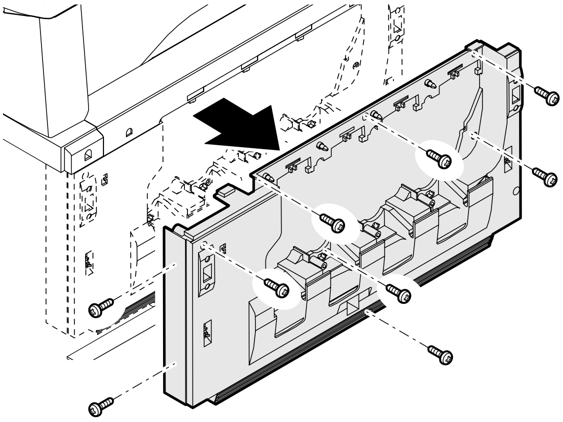
(1) Cabinet disassembly 1

1) Open the front cabinet.
2) Remove the front cabinet band. Pull out the slide pin (B), and remove the front cabinet (C).



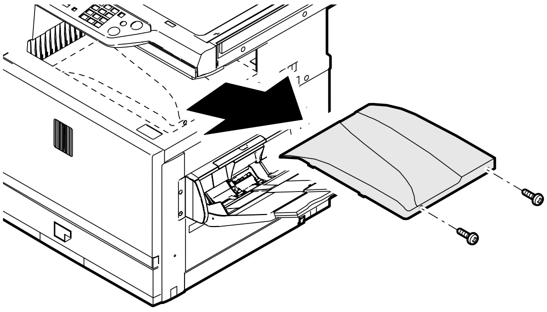
(2) Cabinet disassembly 2

1) Remove the front cabinet.
2) Open the left cabinet. Remove the screw and remove the front frame cover.



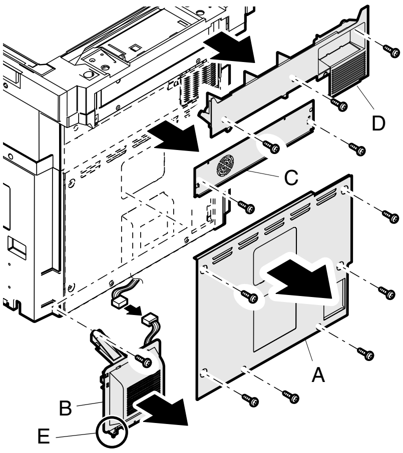
(3) Cabinet disassembly 3

1) Remove the screw, and slide the paper exit tray cabinet right to the right to remove.



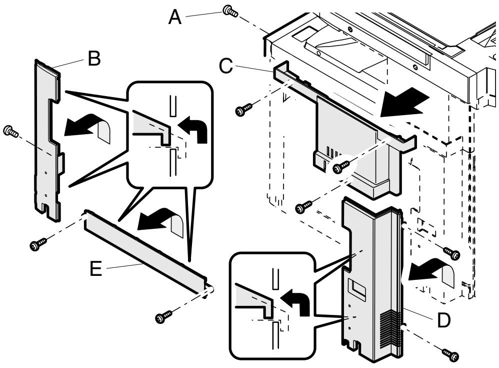
(4) Cabinet disassembly 4

1) Remove the screw, and remove the rear cabinet (A). Remove the screw, and remove the DC power CFM unit (B) and the connector. Remove the screw, and remove the ROM cover (C) and the rear connection cabinet (D).
   - ∗ When assembling, insert the boss in section E into the hole in the frame.



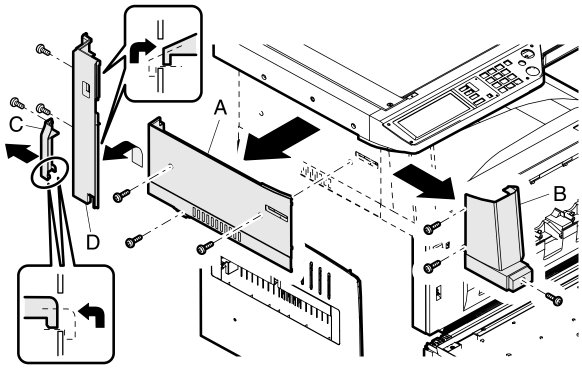
(5) Cabinet disassembly 5

1) Remove the rear cabinet.
2) Remove the screw (A), and slide the front right cabinet (B) upward to remove. Remove the screw, and slide the connection right cabinet (C), the rear right cabinet (D), and the right lower cabinet (E) upward to remove.



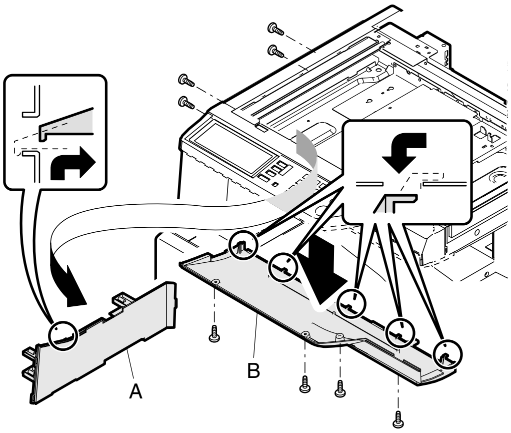
(6) Cabinet disassembly 6

1) Remove the rear cabinet.
2) Remove the screw, and remove the FD connection cabinet (A) and the front cabinet upper (B). Remove the screw, and slide the rear left cabinet lid (C) and the rear left cabinet (D) upper to remove.



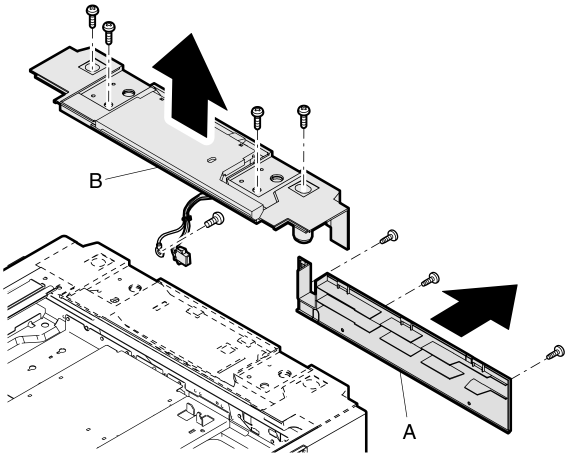
(7) Cabinet disassembly 7

1) Remove the screw, and remove the FD paper exit port cabinet (A) and the operation panel plate (B).



(8) Cabinet disassembly 8

1) Remove the screw, and remove the upper cabinet rear cover (A). Remove the connector and the screw, and remove the upper cabinet rear unit.



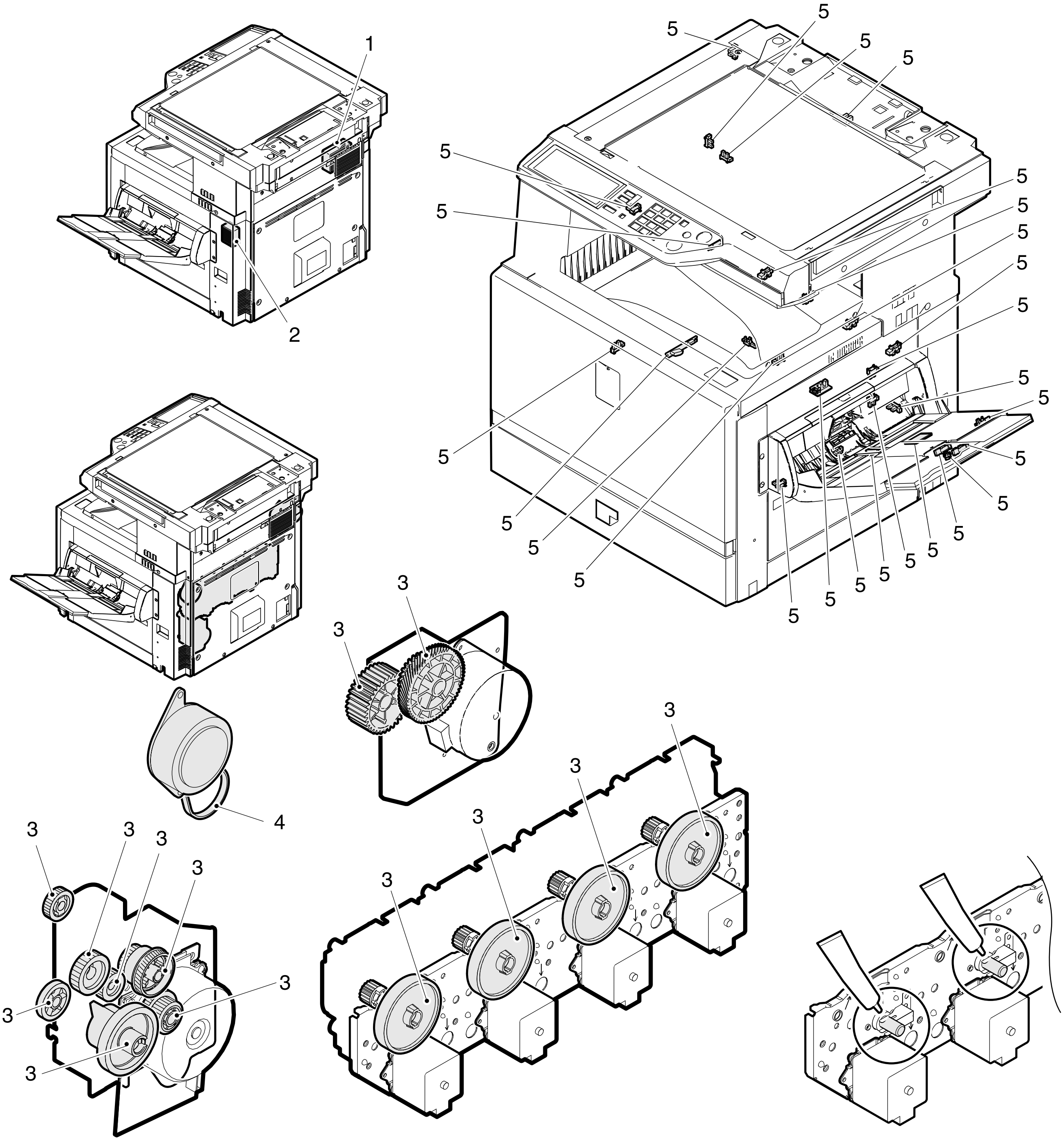
8. Others

A. Disassembly/assembly/maintenance

(1) Maintenance target parts

×: Check (Clean, replace, or adjust as necessary.) ❍: Clean ▲: Replace △: Adjust ☆: Lubricate ❑: Shift position

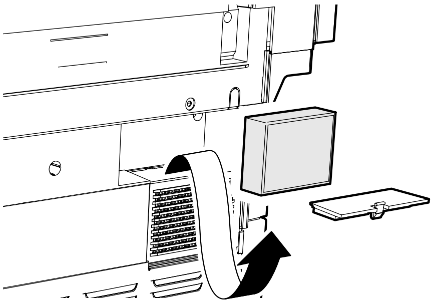
Unit name	No.	Part name	When calling	50K	100K	150K	200K	250K	300K	350K	400K	Remark
Filters	1	Ozone filter	×	▲	▲	▲	▲	▲	▲	▲	▲	
	2	Sub ozone filter	×	▲	▲	▲	▲	▲	▲	▲	▲	
Drive section	3	Gears	☆	☆	☆	☆	☆	☆	☆	☆	☆	
	4	Belts	×	×	×	×	×	×	×	×	×	
Others	5	Sensors	×		×		×		×		×	



(2) Maintenance parts and major parts replacement

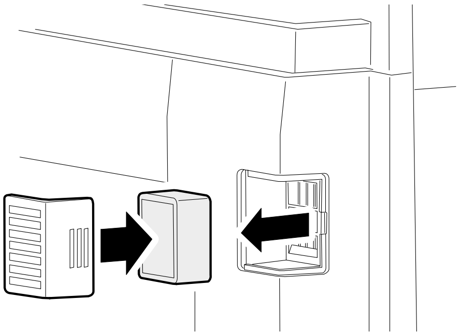
a. Ozone filter

1) Remove the ozone filter cover, and remove the ozone filter.



b. Sub ozone filter

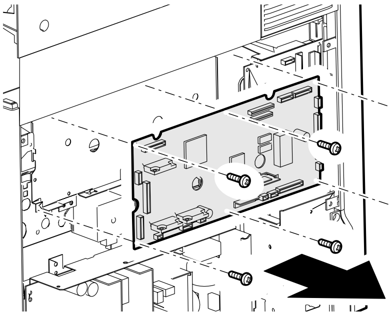
1) Remove the sub ozone filter cover, and remove the sub ozone filter.



c. PWB

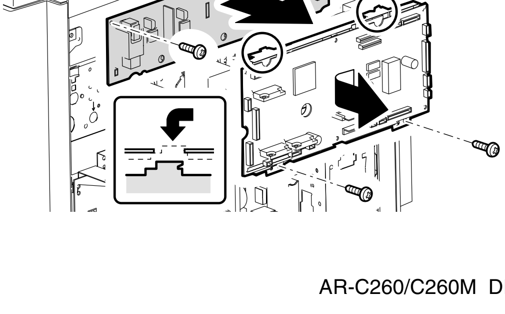
<1> PCU PWB

1) Remove the rear cabinet.
2) Remove the connector and the screw, and remove the PCU PWB.



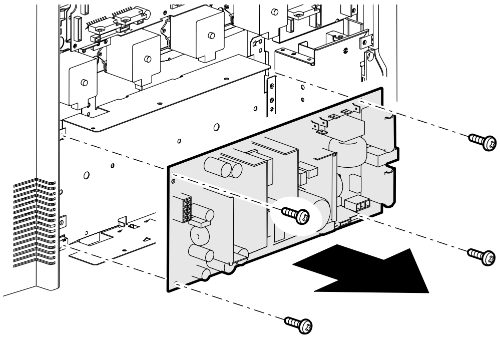
<2> High voltage MC power PWB

1) Remove the rear cabinet.
2) Remove the connector and the screw, and remove the PCU PWB unit.
3) Remove the connector and the screw, and remove the high voltage MC power PWB.



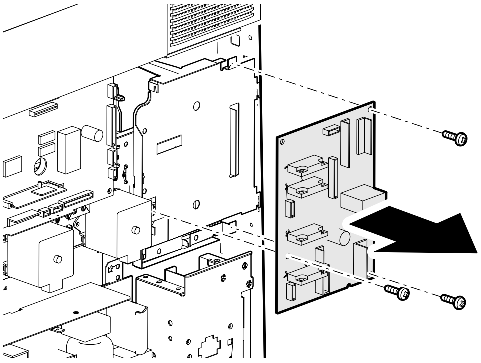
<3> Power PWB

1) Remove the rear cabinet and the DC power CFM unit.
2) Remove the connector and the screw, and remove the power PWB.



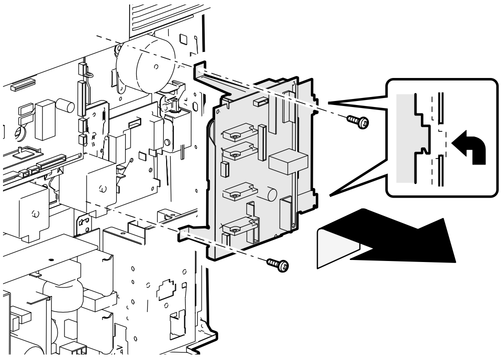
<4> Driver PWB

1) Remove the rear cabinet, the rear left cabinet lid, and the rear left cabinet.
2) Remove the screw and the connector, and remove the driver PWB.

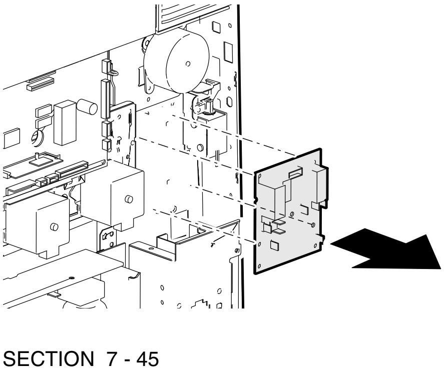


<5> AC PWB

1) Remove the screw, the rear cabinet, the rear left cabinet lid, and the rear left cabinet.
2) Remove the screw and the harness, and remove the driver PWB unit.

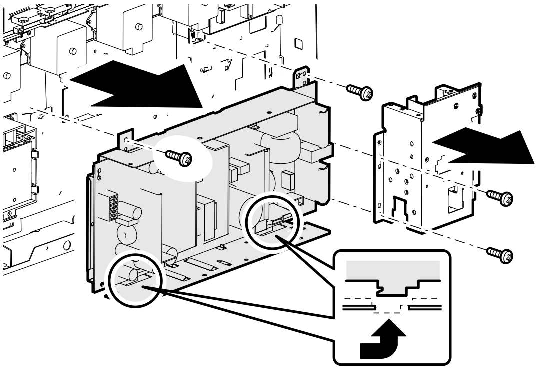


3) Remove the harness and remove the AC PWB from the supporter.

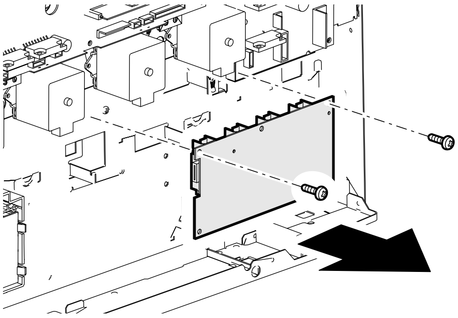


<6> High voltage TC power PWB

1) Remove the rear cabinet, the DC power CFM unit, the rear left cabinet lid, and the rear left cabinet.
2) Remove the connector, the harness, and the screw. Remove the Power PWB unit.

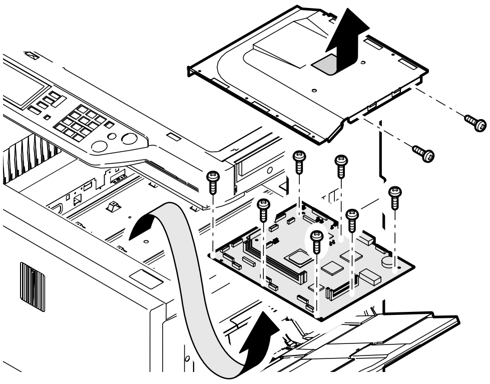


3) Remove the connector and the screw, and remove the high voltage TC power PWB.



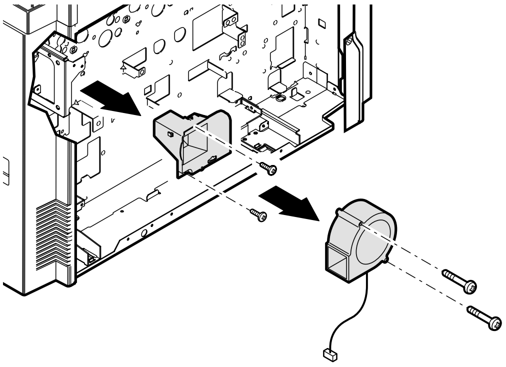
<7> ICU PWB

1) Remove the paper exit tray cabinet right.
2) Remove the screw, and remove the box cover. Remove the screw, and remove the ICU PWB.

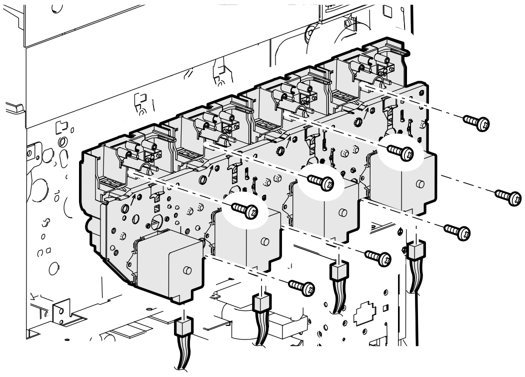


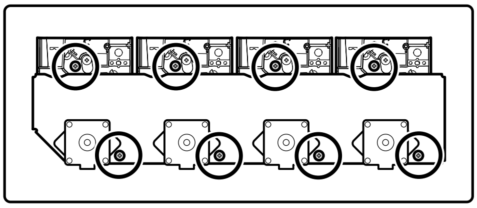
<8> Drum drive unit

1) Remove the rear cabinet.
2) Remove the DC power CFM unit.
3) Remove the driver PWB unit.
4) Remove the PCU PWB unit.
5) Remove the screw and the connector, and remove the intake duct FAN.
6) Remove the screw and the intake duct.



7) Remove the high voltage MC PWB.
8) Remove the connector screw and the drum drive unit.





[8] SETTING AND ADJUSTMENTS

Each adjustment item in the adjustment item list is indicated with its JOB number.
Perform the adjustment procedures in the sequence of Job numbers from the smallest to the greatest.
However, there is no need to perform all the adjustment items. Perform only the necessary adjustments according to the need.
Unnecessary adjustments can be omitted. Even in this case, however, the sequence from the smallest to the greatest JOB number must be observed.
If the above precaution should be neglected, the adjustment would not complete normally or a trouble may occur.

JOB No	ADJUSTMENT ITEM LIST			SIMULATION
ADJ 1	High voltage adjustment	ADJ 1A	Main charger grid voltage adjustment	8-2
		ADJ 1B	DV bias voltage adjustment	8-1
		ADJ 1C	Transfer voltage adjustment	8-6
ADJ 2	Image density sensor adjustment	ADJ 2A	Color image density sensor adjustment (adjustment by the adjustment jig)	44-13
		ADJ 2B	Black image density sensor adjustment	44-2
		ADJ 2C	Color image density sensor & black image density sensor adjustment (Simple adjustment) *1	44-36
ADJ 3	Image focus, image skew adjustment (LED (writing) unit)			64-1/61-4
ADJ 4	Image registration adjustment	ADJ 4A	Image registration adjustment (Auto adjustment)	50-22
		ADJ 4B	Image registration adjustment (Manual adjustment)	50-20
ADJ 5	Image position/print area adjustment (Print engine section)	ADJ 5A	Main scanning direction image position adjustment (Print engine section)	50-10
		ADJ 5B	Sub scanning direction image position/print area adjustment (Print engine section)	50-5
ADJ 6	Copy image distortion adjustment	ADJ 6A	Scanner (reading) unit parallelism adjustment	
		ADJ 6B	Copy image sub scanning direction distortion adjustment	
		ADJ 6C	Copy image main scanning direction distortion adjustment	
		ADJ 6D	Scan image distortion adjustment	
ADJ 7	Copy image focus (main scanning direction copy magnification ratio) adjustment (CCD unit position adjustment)			48-1
ADJ 8	Sub scanning direction copy magnification ratio adjustment			48-1
ADJ 9	Main scanning direction copy image position adjustment (Scanner (reading) section)			50-12
ADJ 10	Copy image position/image loss/void area adjustment			50-1/50-2
ADJ 11	Copy color balance/density adjustment	ADJ 11A	CCD gamma adjustment (CCD calibration) (Normal document copy mode)	63-3 (63-5)
		ADJ 11B	Copy color balance adjustment (Auto adjustment)	46-24
		ADJ 11C	Copy color balance adjustment (Manual adjustment)	46-21
		ADJ 11D	Copy density adjustment in low-density area (Normally unnecessary to adjust.)	46-1/2
		ADJ 11E	Copy color balance density adjustment (each copy mode) (Normally unnecessary to adjust.)	46-10 to 16
		ADJ 11F	CCD gamma adjustment (CCD calibration) (Copy document copy mode)	63-9
		ADJ 11G	Image edge section gamma/density adjustment (Black text and black line reproduction adjustment) (Normally unnecessary to adjust.)	46-27
		ADJ 11H	Copy color balance adjustment (Single color Copy mode) (Normally unnecessary to adjust.)	46-25
		ADJ 11I	Auto color balance adjustment by user (Copy color balance auto adjustment enable setting and adjustment)	26-53
		ADJ 11J	Background process conditions setting in the color auto copy mode, image auto recognition conditions setting, text-on-dot recognition conditions setting	46-33
ADJ 12	Fusing pressure adjustment			
ADJ 13	Fusing paper guide position adjustment			
ADJ 14	Document size sensor adjustment	ADJ 14A	Original size sensor detection point adjustment	41-2
		ADJ 14B	Original size sensor sensitivity adjustment	41-2
ADJ 15	Manual paper feed tray paper size sensor adjustment			40-2
ADJ 16	Touch panel coordinates setting			65-1
ADJ 17	Power voltage adjustment	ADJ 17A	3.4 V power voltage adjustment	
		ADJ 17B	5.0 V power voltage adjustment	
ADJ 18	FAX/scanner mode image loss adjustment			50-27

*1: The simple adjustment does not use the adjustment jig. Its adjustment accuracy may be lower than that of the adjustment by using the adjustment jig under some machine conditions.

ADJ 1 High voltage adjustment

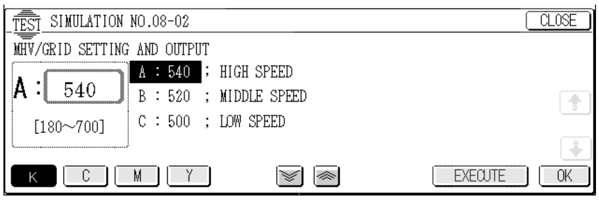
Since the output voltage cannot be checked directly due to the machine structure, the adjustment value of the simulation is set to the default (specified value) to perform the adjustment.

ADJ 1A Main charger grid voltage adjustment

This adjustment must be performed in the following cases:

- When the high voltage power PWB is replaced.
- When a U2 trouble occurs.
- When the PCU PWB is replaced.
- When the EEPROM of the PCU PWB is replaced.

1) Enter the SIM 8-2 mode.



TEST SIMULATION NO.08-02

MHV/GRID SETTING AND OUTPUT

A : 540

[180～700]

A : 540 ; HIGH SPEED

B : 520 ; MIDDLE SPEED

C : 500 ; LOW SPEED

SIM 8-2

2) Select the output mode to be adjusted with the color key and scroll key.
3) Enter the adjustment value (specified value), and press the [OK] key.

   By entering the default value (specified value), the specified voltage is outputted.

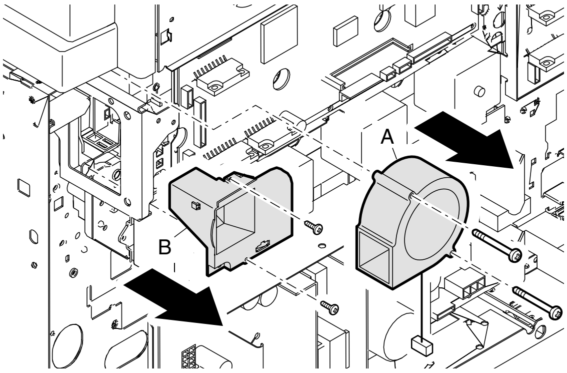
Color	Item	Operation mode	Adjustment value		Main charger grid voltage			
					Monitor (High voltage PWB)		Pin No.	Actual voltage
			Adjustment range	Specified value (Default)	Monitor voltage (Specified value)	Connector		
K	A: HIGH SPEED	High speed (140mm/s) (B & W)	180 – 700	620	53.5 ± 0.2v	CNMONK	1	–620v
	B: MIDDLE SPEED	Middle speed (117mm/s) (Color) (B & W)	180 – 700	620	53.5 ± 0.2v	CNMONK	1	–620v
	C: LOW SPEED	Low speed (58.5mm/s) (Color) (B & W) (Special paper)	180 – 700	590	50.6 ± 0.2v	CNMONK	1	–590v
C	A: MIDDLE SPEED	Middle speed (117mm/s) (Color) (B & W)	180 – 700	620	53.5 ± 0.2v	CNMON	3	–620v
	B: LOW SPEED	Low speed (58.5mm/s) (Color) (B & W) (Special paper)	180 – 700	590	50.6 ± 0.2v	CNMON	3	–590v
M	A: MIDDLE SPEED	Middle speed (117mm/s) (Color) (B & W)	180 – 700	620	53.5 ± 0.2v	CNMON	7	–620v
	B: LOW SPEED	Low speed (58.5mm/s) (Color) (B & W) (Special paper)	180 – 700	590	50.6 ± 0.2v	CNMON	7	–590v
Y	A: MIDDLE SPEED	Middle speed (117mm/s) (Color) (B & W)	180 – 700	620	53.5 ± 0.2v	CNMON	11	–620v
	B: LOW SPEED	Low speed (58.5mm/s) (Color) (B & W) (Special paper)	180 – 700	590	50.6 ± 0.2v	CNMON	11	–590v

Remark: When the default value is set, the specified voltage is outputted.

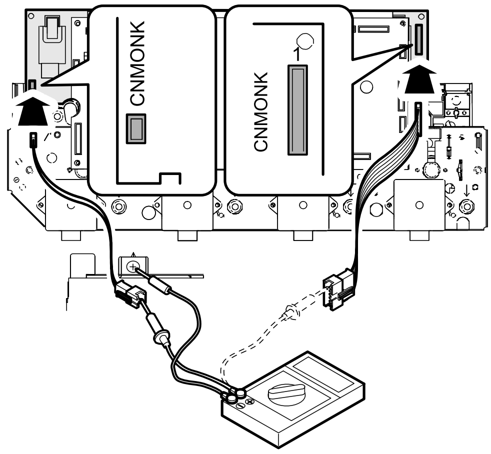
There is, therefore, no need to check the output voltage unless there is a doubt for any abnormality in the output voltage.

If there is a need to check that the normal voltage is outputted or to adjust by referring to the output voltage, use the method below.

1) Remove the rear cover of the machine.
2) Remove the image process fan motor and the duct.



3) Connect the high voltage adjustment harnesses (DHAi-3471FCZZ/DHAi-3472FCZZ) with the connectors CNMON and CNMONK on the high voltage PWB.



4) Enter the SIM8-2 mode.
5) Select the output mode to be adjusted with the color key and the scroll key.
6) Check that the pin numbers of the connectors CNMON and CNMONK are properly assigned to the connector pin numbers of the high voltage adjustment harness.
7) Apply a digital multi-meter to the connector pins of the high voltage adjustment harness corresponding to the output mode to be adjusted.

8) Press the [EXECUTE] key.

The main charger grid voltage is outputted for 30sec.

If this operation is performed for a long time, the OPC drum and the developing roller may be damaged. Be careful to perform this operation in a short time.

It is advisable to install an unnecessary developing unit and unnecessary OPC drums to the machine for this adjustment.

9) Check the monitor voltage with the digital multi-meter.

If the monitor voltage is not in the above specified range, change the adjustment value and adjust again. If the specified voltage is not obtained even by changing the adjustment value, the following parts may be judged as defective.

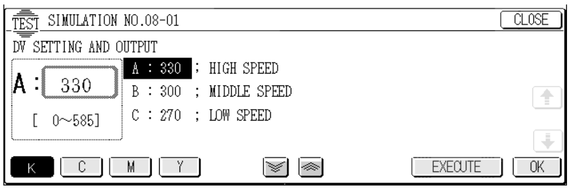
High voltage PWB
PCU PWB
Developing unit
Photoconductor unit
High voltage circuit electrode

ADJ 1B DV bias voltage adjustment

This adjustment must be performed in the following cases:

- When the high voltage power PWB is replaced.
- When a U2 trouble occurs.
- When the PCU PWB is replaced.
- When the EEPROM of the PCU PWB is replaced.

1) Enter the SIM 8-1 mode.



TEST SIMULATION NO.08-01

DV SETTING AND OUTPUT

A : 330

[0~585]

A : 330 ; HIGH SPEED
B : 300 ; MIDDLE SPEED
C : 270 ; LOW SPEED

SIM 8-1

2) Select the output mode to be adjusted with the color key and the scroll key.

3) Enter the adjustment value (specified value), and press the [OK] key.

By entering the default value (specified value), the specified voltage is outputted.

Color	Item	Operation mode	Adjustment value		Developing bias voltage			
					Monitor (High voltage PWB)		Pin No.	Actual voltage
			Adjustment range	Specified value (Default)	Monitor voltage (Specified value)	Connector		
K	A: HIGH SPEED	High speed (140mm/s) (B & W)	180 – 700	315	7.43 ± 0.1V	CNMONK	3	–315v
	B: MIDDLE SPEED	Middle speed (117mm/s) (Color) (B & W)	180 – 700	315	7.43 ± 0.1V	CNMONK	3	–315v
	C: LOW SPEED	Low speed (58.5mm/s) (Color) (B & W) (Special paper)	180 – 700	285	6.45 ± 0.1V	CNMONK	3	–285v
C	A: MIDDLE SPEED	Middle speed (117mm/s) (Color) (B & W)	180 – 700	265	5.76 ± 0.1V	CNMON	1	–265v
	B: LOW SPEED	Low speed (58.5mm/s) (Color) (B & W) (Special paper)	180 – 700	235	4.75 ± 0.1V	CNMON	1	–235v
M	A: MIDDLE SPEED	Middle speed (117mm/s) (Color) (B & W)	180 – 700	265	5.76 ± 0.1V	CNMON	5	–265v
	B: LOW SPEED	Low speed (58.5mm/s) (Color) (B & W) (Special paper)	180 – 700	235	4.75 ± 0.1V	CNMON	5	–235v
Y	A: MIDDLE SPEED	Middle speed (117mm/s) (Color) (B & W)	180 – 700	240	4.75 ± 0.1V	CNMON	9	–240v
	B: LOW SPEED	Low speed (58.5mm/s) (Color) (B & W) (Special paper)	180 – 700	210	3.78 ± 0.1V	CNMON	9	–210v

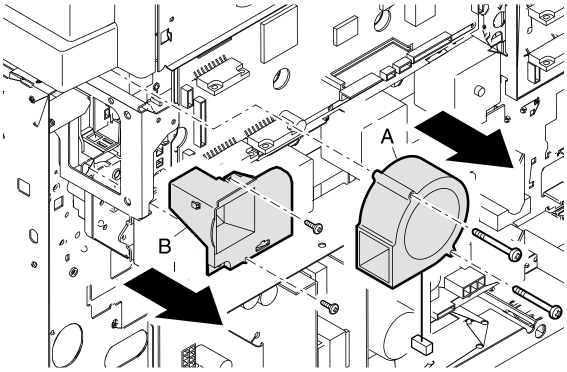
Remark: When the default value is set, the specified voltage is outputted.

There is, therefore, no need to check the output voltage unless there is a doubt for any abnormality in the output voltage.

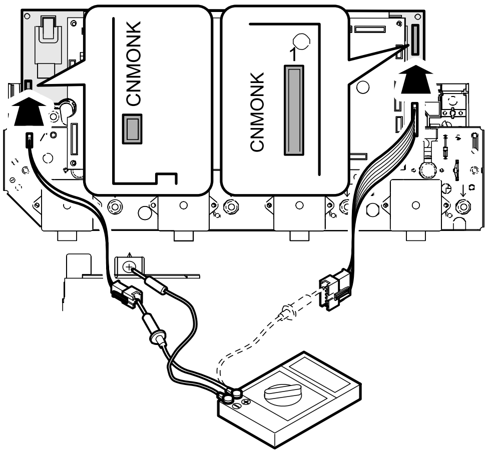
If there is a need to check that the normal voltage is outputted or to adjust by referring to the output voltage, use the method below.

1) Remove the rear cover of the machine.

2) Remove the image process fan motor and the duct.



3) Connect the high voltage adjustment harnesses (DHAi-3471FCZZ/DHAi-3472FCZZ) with the connectors CNMON and CNMONK on the high voltage PWB.



4) Enter the SIM8-2 mode.

5) Select the output mode to be adjusted with the color key and the scroll key.

6) Check that the pin numbers of the connectors CNMON and CNMONK are properly assigned to the connector pin numbers of the high voltage adjustment harness.

7) Apply a digital multi-meter to the connector pins of the high voltage adjustment harness corresponding to the output mode to be adjusted.

8) Press the [EXECUTE] key.

The developing bias voltage is outputted for 30sec.

If this operation is performed for a long time, the OPC drum and the developing roller may be damaged. Be careful to perform this operation in a short time.

It is advisable to install an unnecessary developing unit and unnecessary OPC drums to the machine for this adjustment.

9) Check the monitor voltage with the digital multi-meter.

If the monitor voltage is not in the above specified range, change the adjustment value and adjust again. If the specified voltage is not obtained even by changing the adjustment value, the following parts may be judged as defective.

High voltage PWB

PCU PWB

Developing unit

Photoconductor unit

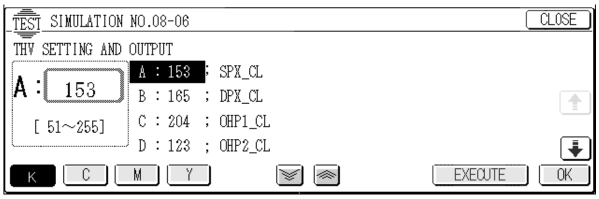
High voltage circuit electrode

ADJ 1C Transfer voltage adjustment

This adjustment must be performed in the following cases:

- When the high voltage power PWB is replaced.
- When a U2 trouble occurs.
- When the PCU PWB is replaced.
- When the EEPROM of the PCU PWB is replaced.

1) Enter the SIM 8-6 mode.



SIMULATION NO.08-06

THV SETTING AND OUTPUT

A : 153

[51～255]

A : 153 ; SPX_CL
B : 165 ; DPX_CL
C : 204 ; OHP1_CL
D : 123 ; OHP2_CL

SIM 8-6

2) Select the mode to be adjusted with the color key and scroll key.

3) Enter the adjustment value (specified value), and press the [OK] key.

By entering the default value (specified value), the specified voltage is outputted.

Item		Print mode			Standard setting value (Default)				Adjustment range	Output voltage (Kv)			
					K	C	M	Y		K	C	M	Y
A	PLAIN_SPX_CL	Color	Normal paper	117mm/s	173	159	132	132	51 - 255	2.4	2.4	2.4	2.4
B	PLAIN_DPX_CL	Color	Normal paper(Duplex mode)	117mm/s	188	173	142	142		2.7	2.7	2.7	2.7
C	OHP1_CL	Color	Transparency film 1	117mm/s	204	187	153	153		3	3	3	3
D	OHP2_CL	Color	Transparency film 2	58.5mm/s	137	150	153	163		1.7	2.2	3	3.3
E	HEAVY P1_SPX_CL	Color	Thick paper 1	58.5mm/s	158	146	122	122		2.1	2.1	2.1	2.1
F	HEAVY_P1_DPX_CL	Color	Thick paper 1(Duplex mode)	58.5mm/s	188	173	142	142		2.7	2.7	2.7	2.7
G	HEAVY_P2_CL	Color	Thick paper 2	58.5mm/s	173	159	132	132		2.2	2.2	2.2	2.2
H	ENV_CL	Color	Envelope	117mm/s	163	150	125	125		2.2	2.2	2.2	2.2
I	PLAIN_SPX_BW	B & W	Normal paper	140mm/s	168					2.3			
J	PLAIN_DPX_BW	B & W	Normal paper(Duplex mode)	140mm/s	178					2.5			
K	OHP1_BW	B & W	Transparency film 1	117mm/s	204					3			
L	OHP2_BW	B & W	Transparency film 2	58.5mm/s	137					1.7			
M	HEAVY_P1_SPX_BW	B & W	Thick paper 1	58.5mm/s	147					1.9			
N	HEAVY_P1_DPX_BW	B & W	Thick paper 1(Duplex mode)	58.5mm/s	178					2.5			
O	HEAVY_P2_BW	B & W	Thick paper 2	58.5mm/s	163					2.2			
P	ENV_BW	B & W	Envelope	140mm/s	168					2.3			

Color	Actual output variable range	Voltage change/Adjustment value (1) (Varying amount when the adjustment value is changed by 1)
K	0 to 4000V	About 19.6V
C	0 to 4500V	About 22.1V
M	0 to 6000V	About 29.4V
Y	0 to 6000V	About 29.4V

Press the [EXECUTE] key to output the transfer voltage.

ADJ 2 Image density sensor adjustment

The image density sensor sections are of uneven quality in parts and assembly. This causes variations in the absolute detection level between machines. This adjustment (calibration) is performed to correct the variations.

This adjustment is required in the following cases:

- When the image density sensor is replaced.
- When the transfer unit is replaced.
- When maintenance is performed.
- When U2 trouble occurs.
- When the PCU PWB is replaced.
- When the EEPROM on the PCU PWB is repalced.

The targets of the adjustment are the color image density sensor and the black image density sensor. There are following adjustment methods:

- Color image density sensor adjustment (adjustment by the adjustment jig) SIM44-13
- Black image sensity sensor adjustment SIM44-2
- Image density sensor adjustment (The color image density sensor and the black image density sensor are adjusted at the same time.) (Simple adjustment) SIM44-36

Normally the following adjustments are executed:

- ADJ 2A Color image density sensor adjustment (adjustment by the adjustment jig) (SIM44-13)
- ADJ 2B Black image density sensor adjustment (SIM44-2)

Note:

There are two methods to adjust the color image density sensor; one method uses the adjustment jig, and the other method does not use it.

If there is no adjustment jig available, the simple adjustment (SIM44-36) can be made, which may, however, result in insufficient adjustment accuracy depending on the machine condition.

If toner, the OPC drum, and the transfer belt are not new ones or almost new ones, the simple adjustment is not recommended.

Even though the machine conditions are well, the adjustment by use of the adjustmment jig gives a higher adjustment accuracy than the adjustment without the adjustment jig (simple adjustment).

Also note that SIM44-36 must not executed unnecessarily after execution of the color image density sensor adjustment (adjustment by the adjustment jig) with SIM44-13.

If SIM 44-36 is executed, the contents of the color image density sensor adjustment (adjustment by the adjustment jig) with SIM44-13 are erased, and the adjustment result of SIM44-36 is saved.

When the color image density sensor is adjusted with SIM44-13 and the black image density sensor is adjsuted with SIM 44-2, the adjustment with SIM44-36 is not required.

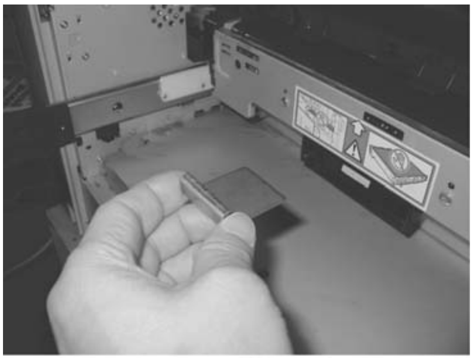
To adjust the black image density sensor, the adjustment jig is not required.

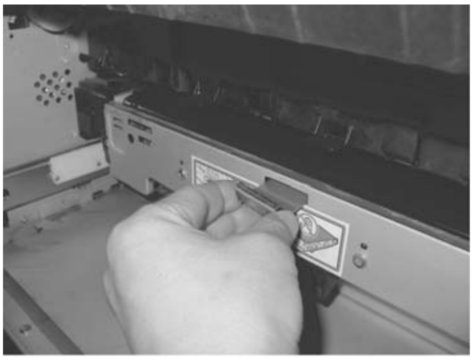
Before executing this adjustment, check the following items:

- Check that the color imagte density sensor is clean.
- Check that the image density sensor calibration plate is clean.
- Check that the transfer belt is free from scratches.

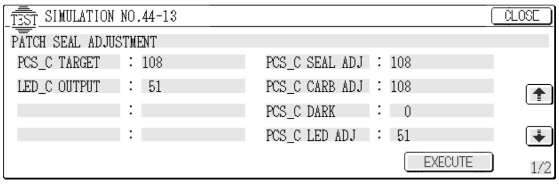
ADJ 2A Color image density sensor adjustment (adjustment by the adjustment jig)

1) Open the front cover of the machine.
2) Insert the color image density sensor adjustment jig (CPLTM6305FC01) into the long hole in the transfer unit frame, and close the left cabinet.





3) With the front cover of the machine open (with the cover open/close switch OFF), turn on the power.
4) The Machine enters Sim 44-13 mode.



SIMULATION NO.44-13

PATCH SEAL ADJUSTMENT

PCS_C TARGET : 108

LED_C OUTPUT : 51

PCS_C SEAL ADJ : 108

PCS_C CARB ADJ : 108

PCS_C DARK : 0

PCS_C LED ADJ : 51

SIM 44-13

5) Close the front cover of the machine.
6) Press the [EXECUTE] key.

The adjustment is performed automatically. When the adjustment is completed, the adjustment result is displayed and the the [EXECUTE] key display returns to the original state.

Display		Content	Min Value	Max Value	Default value
A	PCS_C CARB ADJ	Color image density sensor LED current adjustment target value	1	255	108
B	PCS_C DARK	Color image density sensor dark voltage level	0	255	0
C	PCS_C LED ADJ	Color image density sensor current adjustment value	1	255	51

7) Remove the color image density sensor adjustment jig.

If the adjustment is not completed normally, "ERROR" is displayed.

In that case, check the following sections for no abnormality. If there is any abnormality, repair the part and perform the adjustment again. In case of an error, the adjustment result is not revised.

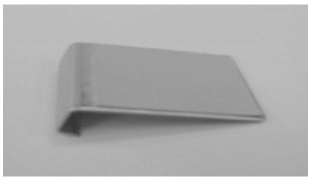
- Image density sensor
- PCU PWB
- Transfer belt

Note:

The color image density sensor adjustment jig is available in the following two forms:

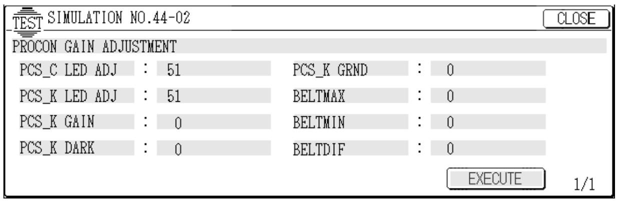
- The jig metal plate with the calibration sheet attached to it (CPLTM6305FC01)
- Calibration sheet (for replacement) (TLABZ4843FCZZ)

TLABZ4843FCZZ is the calibration sheet for replacement. When the calibration sheet attached to CPLTM6305FC01 is dritied or scratched too much to be used, replace only the calibration sheet with a new one.



ADJ 2B Black image density sensor adjustment

1) Enter the SIM44-2 mode.



SIMULATION NO.44-02
PROCON GAIN ADJUSTMENT
PCS_C LED ADJ : 51
PCS_K LED ADJ : 51
PCS_K GAIN : 0
PCS_K DARK : 0
PCS_K GRND : 0
BELTMAX : 0
BELTMIN : 0
BELTDIF : 0

2) Press the [EXECUTE] key.

The adjustment is performed automatically. When the adjustment is completed, the adjustment result is displayed and the the [EXECUTE] key display returns to the original state.

Display		Content	Min Value	Max Value	Default value
A	PCS_C LED ADJ	Color image density sensor current adjustment value	1	255	51
B	PCS K LED ADJ	Black image density sensor LED Current adjustment value	1	255	51
C	PCS_K GAIN	Black image density sensor output gain (AMP) adjustment value	0	15	0
D	PCS_K DARK	Black image density sensor dark voltage level	0	255	0
E	PCS_K GRND	Black image density sensor transfer belt surface detection level	0	255	0
F	BELTMAX	Transfer belt surface max. detection level (Black image sensor)	0	255	0
G	BELTMIN	Transfer belt surface min. detection level (Black image sensor)	0	255	0
H	BELTDIF	Difference between the max. value and the min. value of the transfer belt surface detection level (BELTMAX-BELTMIN)	0	255	0

If the adjustment is not completed normally, "ERROR" is displayed.

In that case, check the following sections for no abnormality. If there is any abnormality, repair the part and perform the adjustment again.

In case of an error, the adjustment result is not revised.

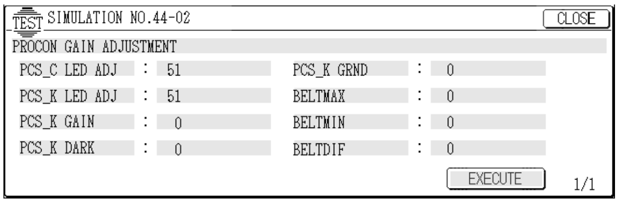
- Image density sensor
- PCU PWB
- Transfer belt

ADJ 2C Color image density sensor & black image density sensor adjustment (Simple adjustment)

When the color image density sensor is adjusted with SIM44-13 and the black image density sensor is adjusted with SIM44-2, the adjustment with SIM44-36 is not required.

In addition, the color image density adjustment jig is not used.

1) Enter the SIM44-36 mode.



SIMULATION NO.44-02
PROCON GAIN ADJUSTMENT
PCS_C LED ADJ : 51
PCS_K LED ADJ : 51
PCS_K GAIN : 0
PCS_K DARK : 0
PCS_K GRND : 0
BELTMAX : 0
BELTMIN : 0
BELTDIF : 0

2) Press the [EXECUTE] key.

The adjustment is performed automatically. When the adjustment is completed, the adjustment result is displayed and the the [EXECUTE] key display returns to the original state.

Display	Content	Min Value	Max Value	Default value
PCS_C CARB ADJ	Color image density sensor LED current adjustment target value	1	255	108
PCS_C DARK	Color image density sensor dark voltage level	0	255	0
PCS_C LED ADJ	Color image density sensor current adjustment value	1	255	51
PCS K LED ADJ	Black image density sensor LED current adjustment value	1	255	51
PCS_K GAIN	Black image density sensor output gain (AMP) adjustment value	0	15	0
PCS_K DARK	Black image density sensor dark voltage level	0	255	0
PCS_K GRND	Black image density sensor transfer belt surface detection level	0	255	0
BELTMAX	Transfer belt surface max. detection level (Black image sensor)	0	255	0
BELTMIN	Transfer belt surface min. detection level (Black image sensor)	0	255	0
BELTDIF	Difference between the max. value and the min. value of the transfer belt surface detection level (BELTMAX-BELTMIN)	0	255	0

If the adjustment is not completed normally, "ERROR" is displayed.
In case of an error, the adjustment result is not revised.

In that case, check the following sections for no abnormality. If there is any abnormality, repair the part and adjust again.

- Image density sensor
- PCU PWB
- Transfer belt

ADJ 3 Image focus, image skew adjustment (LED (writing) unit)

(1) LED print engine image focus adjustment (LED (writing) unit)

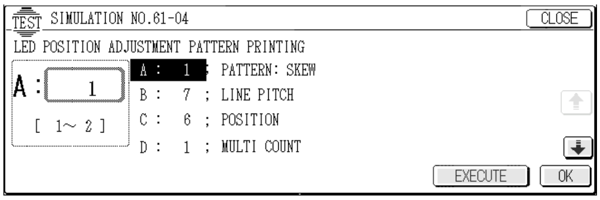
This adjustment must be performed in the following cases:

- When the scanner (writing) unit is replaced.
- When the scanner (writing) unit is removed from the machine.
- When the print image is shifted.
  (Especially conspicuous for text and line drawings)
  (The scanner (reading) unit is normal, but the print image focus of the print engine is not normal.)
- When there is uneven density in the main scanning direction.
- When the color balance adjustment does not result in proper color matching.
- When in installation or when the installing site is changed. (Necessary depending on the case)

1) Execute the process correction forcibly. (SIM44-6)

This simulation is used to correct the print density of the adjustment pattern.

2) Enter the SIM 61-4 mode.



TEST SIMULATION NO.61-04

LED POSITION ADJUSTMENT PATTERN PRINTING

A : 1

[1~ 2]

A : 1 ; PATTERN: SKEW
B : 7 ; LINE PITCH
C : 6 ; POSITION
D : 1 ; MULTI COUNT

SIM 61-4

3) Set the items A, B and C according to the table below.

	Parameter	Set value
A	PRINT PATTERN	2
B	DENSITY	7
C	POSITION	6

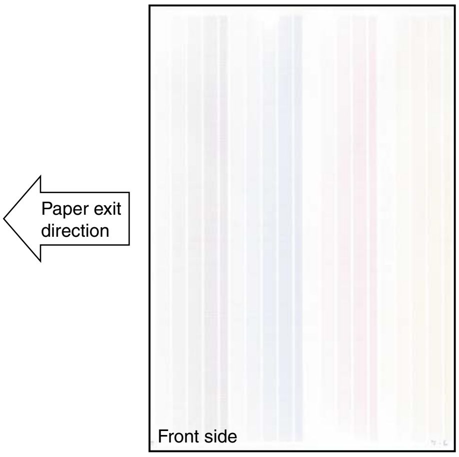
4) Select the A4 (11 x 8 1/2) paper feed tray.

5) Press the [EXECUTE] key.

The focus adjustment pattern is printed.

6) Check the printed focus adjustment pattern for each color.

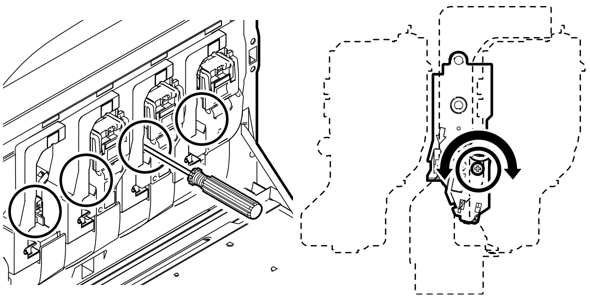
If focus is proper, the half-tone belts are printed properly. When four or five half-tone belts of each color are printed and there is no density difference in the main scanning direction (back and forth), the focus is proper both on the front and the back sides.



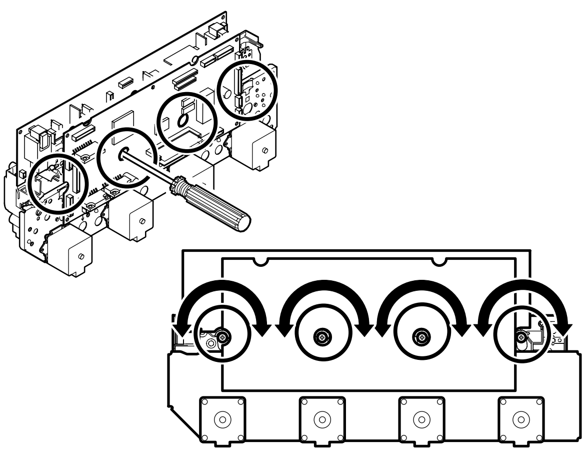
Check that the half-tone belts of each color are printed in good balance.

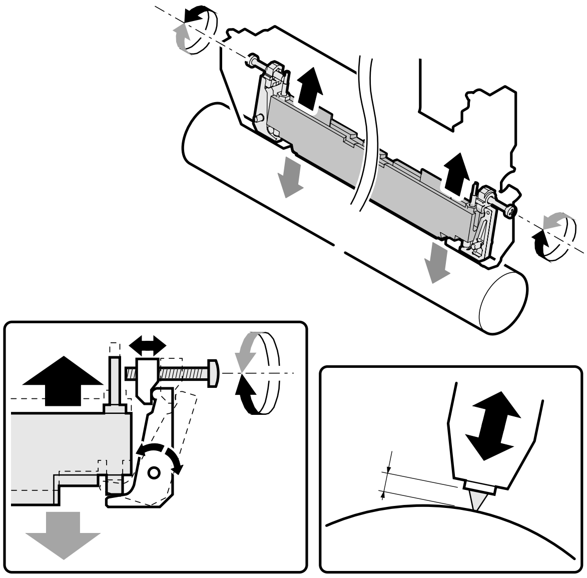
7) If the above condition is not satisfied, turn the focus adjustment screws on the front/rear frame sides to adjust focus.

Focus on the front side can be separately adjusted from focus on the rear side.



Front frame side





Rear frame side

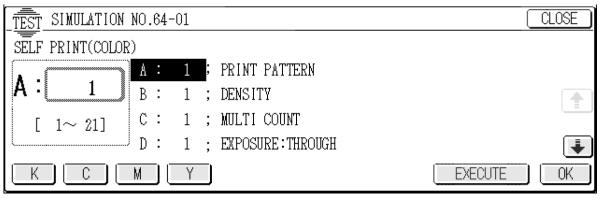
Execute procedures 4 to 6 for each color.

(2) Print engine image skew adjustment (LED (writing) unit)

This adjustment must be performed in the following cases:

- When the scanner (writing) unit is replaced.
- When the scanner (writing) unit is removed from the machine.
- When the print image includes skew.
  (When the scanner (reading) unit is normal and the print image of the print engine includes skew.)
- When a color image registration error occurs.
  (There is an image registration difference in the main scanning direction.)
- When there is uneven density in the main scanning direction.
- When the color balance adjustment does not result in proper color matching.
- When in installation or when the installing site is changed. (Necessary depending on the case)

1) Enter the SIM 64-1 mode.



TEST SIMULATION NO.64-01

SELF PRINT(COLOR)

A : 1

[1~ 21]

A : 1 ; PRINT PATTERN

B : 1 ; DENSITY

C : 1 ; MULTI COUNT

D : 1 ; EXPOSURE:THROUGH

SIM 64-1

2) Set the items A and B according to the table below.

	Parameter	Set value
A	PRINT PATTERN	1
B	DENSITY	1

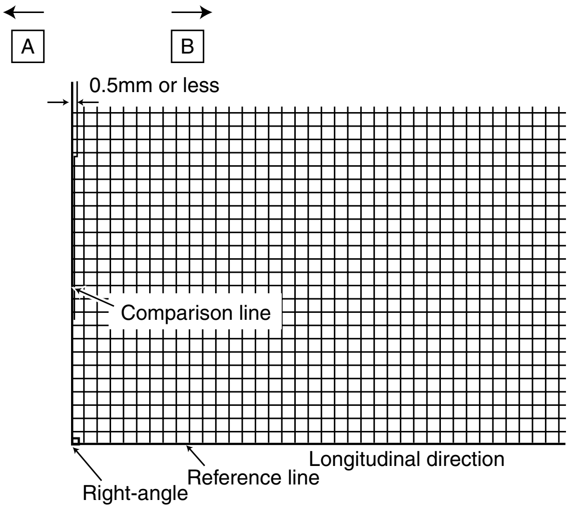
3) Select the A3 (11 x 17) size paper feed tray.

4) Select Black (K) and press the [EXECUTE] key.

The grid patter (one page) is printed.

5) Check the printed grid pattern. (Check for image skew (distortion).)

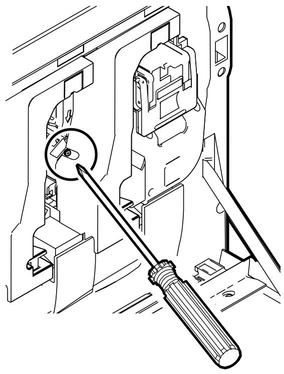
If the right-angle level of the traverse print line is 0.5mm or less for the longitudinal print line of paper, there is no need to adjust.

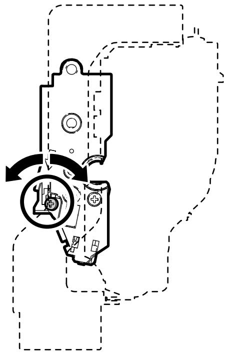


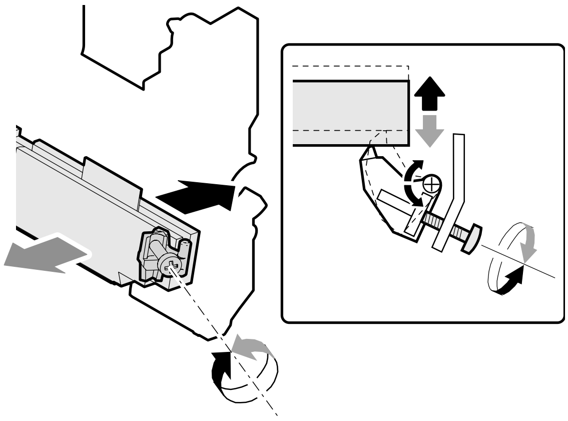
6) If the above conditions are not satisfied, remove the developing unit and turn the print engine image skew adjustment screw to adjust.

At that time, use SIM 7-1 to set DV CHECK DISABLE to Enable and to disable the developing unit installation detection.

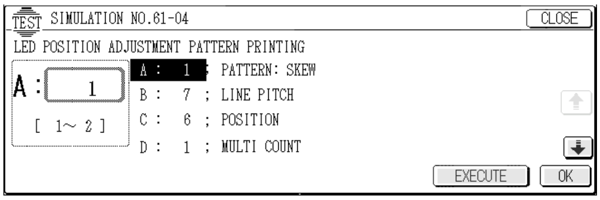
If skew is made in the arrow direction A, turn the adjustment screw clockwise. If skew is made in the arrow direction B, turn the adjustment screw counterclockwise.







7) Enter the SIM 61-4 mode.



TEST SIMULATION NO.61-04

LED POSITION ADJUSTMENT PATTERN PRINTING

A : 1

[1~ 2]

A : 1 ; PATTERN: SKEW

B : 7 ; LINE PITCH

C : 6 ; POSITION

D : 1 ; MULTI COUNT

SIM 61-4

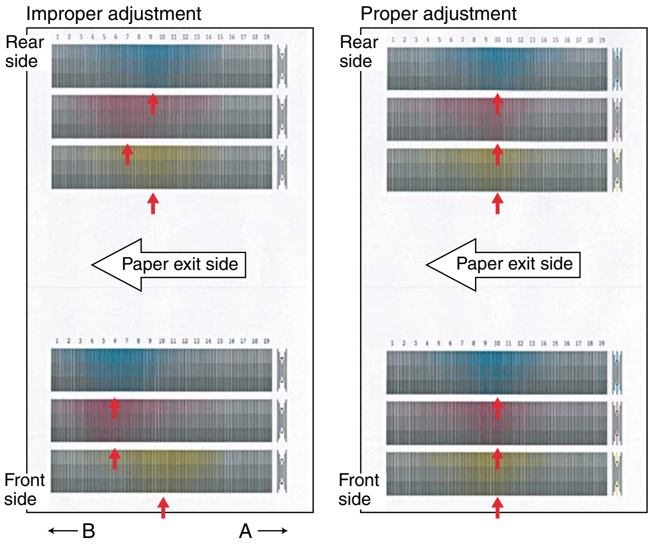
8) Select the A4 (11 x 8.5) size paper feed tray.

9) Press the [EXECUTE] key.

The print engine image skew adjustment pattern is printed. (One page)

10) Check the printed image skew (distortion) pattern.

Compare the same color print pattern on the front frame side with that on the rear frame side, and check that the difference between the two highest-density areas is within 2 steps. (Compare the same color print pattern on the front frame side with that on the rear frame side. There is no need for the positions of the highest-density areas of the print color patterns of all the colors to be aligned on a line. Compare only the same color pattern positions.)



If the above conditions are not satisfied, remove the developing unit on the left and turn the print engine image skew adjustment screw on the front frame side.

To adjust the print engine image skew of Cyan, for example, remove the Magenta developing unit. (To adjust the print engine image skew of Yellow, however, this is not required.)

At that time, use SIM 7-1 to set DV CHECK DISABLE to Enable and to disable the developing unit installation detection.

When the image pattern on the front frame side is skewed to the right (arrow direction A) with the rear frame side as the reference, turn the adjustment screw clockwise. When the image pattern is skewed to the left (arrow direction B), turn the adjustment screw counterclockwise.

When the adjustment screw is turned 1/4 rotation, the image position is shifted by one dot.

Remark: The print engine image focus adjustment is performed by changing the distance between the LED array unit and the OPC drum.

The print engine image skew adjustment is performed by changing the parallelism of the LED array unit for the OPC drum.

If either of the two adjustments is performed, it may affect the other adjustment due to the machine structure.

After completion of the above procedures, check that both of the above two adjustments are satisfied.

ADJ 4 Image registration adjustment

There are two methods of the image registration adjustment: the manual adjustment and the automatic adjustment. Either of them uses the simulation.

This adjustment is required in the following cases:

- When the scanner (writing) unit is replaced.
- When the scanner (writing) unit is removed from the machine.
- When color image mis-resist is generated in the main scanning direction.
- When color image mis-resist is generated in the sub scanning direction.
- When installation or the installing place is changed.
- When maintenance is performed. (When the OPC drum, the photoconductor cartridge, the transfer unit, or the transfer belt is replaced.)
- When U2 trouble occurs.
- When ICU PWB is replaced.
- When EEPROM on ICU PWB is replaced.

Remark: Though SIM 50-22 is not performed under the following conditions, the image registration adjustment is performed automatically.

∗ When the toner cartridge is replaced.

∗ At every 8,000 copies (total of print quantity and copy quantity) (When 8,000 copies is reached during a job, the machine stops after completion of the job.)

If the set item AR of SIM 44-1 is set to OFF (Disable), the above operation is not performed.

After setting the image registration to the best by SIM 50-20, when the image registration adjustment is automatically performed, the best-adjusted condition may be varied. To avoid this, set the item AR of SIM 44-1 to OFF (Disable).

Note:

Before executing this adjustment, check that the following adjustments have been properly completed.

∗ Print engine image focus adjustment (Scanner (writing) unit)

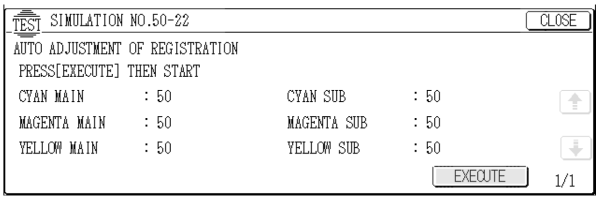
∗ Print engine image skew adjustment (Scanner (writing) unit)

∗ Image registration sensor adjustment

ADJ 4A Image registration adjustment (Auto adjustment)

This adjustment is used to perform the image registration adjustment in the main scanning direction and in the sub scanning direction at the same time with the simulation.

1) Enter the SIM 50-22 mode.



SIMULATION NO.50-22

AUTO ADJUSTMENT OF REGISTRATION

PRESS[EXECUTE] THEN START

CYAN MAIN : 50
MAGENTA MAIN : 50
YELLOW MAIN : 50
CYAN SUB : 50
MAGENTA SUB : 50
YELLOW SUB : 50

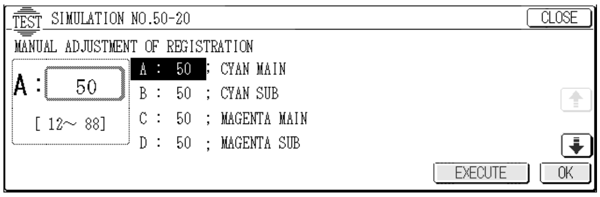
SIM 50-22

2) Press the [EXECUTE] key.

The [EXECUTE] key is highlighted, and the image registration automatic adjustment is started. After completion of the adjustment, the [EXECUTE] key returns to the normal display.

The adjustment process status is indicated with (∗) mark. It takes several minutes to complete the adjustment.

3) Enter the SIM 50-20 mode.



SIMULATION NO.50-20

MANUAL ADJUSTMENT OF REGISTRATION

A : 50

[12~ 88]

A : 50 ; CYAN MAIN
B : 50 ; CYAN SUB
C : 50 ; MAGENTA MAIN
D : 50 ; MAGENTA SUB

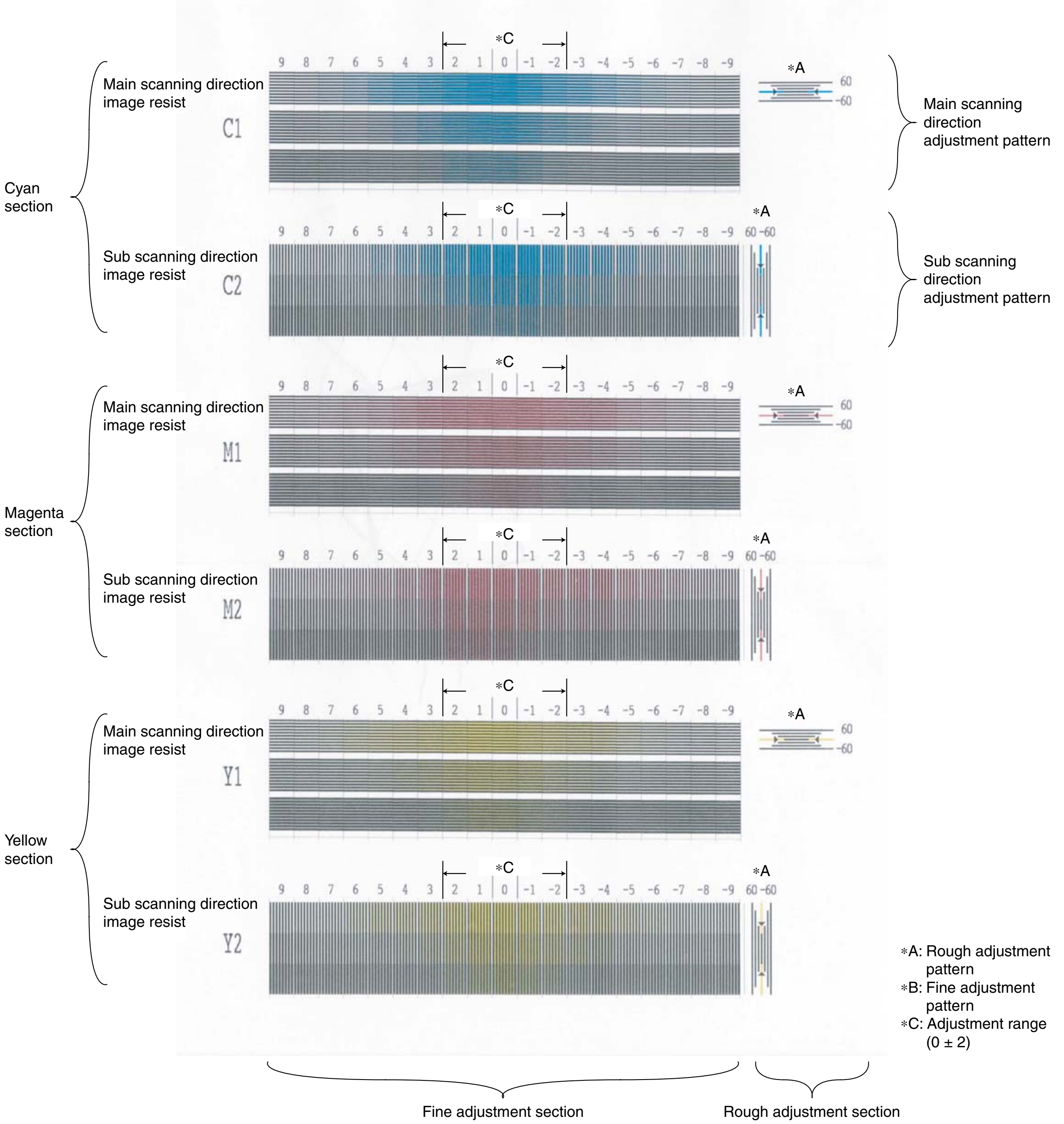
SIM 50-20

4) Select the A4 (11 x 8 1/2) size paper feed tray.

5) Press the [EXECUTE] key.

The image registration adjustment pattern is printed.

- Image registration adjustment pattern



∗C
9 8 7 6 5 4 3 2 1 0 -1 -2 -3 -4 -5 -6 -7 -8 -9
∗A
60
-60
Cyan section
Main scanning direction image resist
C1
Main scanning direction adjustment pattern
Sub scanning direction image resist
C2
60 -60
Sub scanning direction adjustment pattern
Magenta section
Main scanning direction image resist
M1
Sub scanning direction image resist
M2
Yellow section
Main scanning direction image resist
Y1
Sub scanning direction image resist
Y2
Fine adjustment section
Rough adjustment section

∗A: Rough adjustment pattern
∗B: Fine adjustment pattern
∗C: Adjustment range (0 ± 2)

C1 = CYAN MAIN
C2 = CYAN SUB
M1 = MAGENTA MAIN
M2 = MAGENTA SUB
Y1 = YELLOW MAIN
Y2 = YELLOW SUB

6) Check the rough adjustment print pattern position and the fine adjustment print pattern position of each color on the front and the rear frame sides.

Check visually and use the highest-density area of each color as the center, and regard it as the reading value of shift.

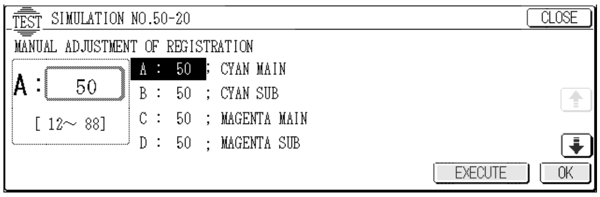
Rough adjustment print pattern check:	Check that the rough adjustment print pattern is at the center for the rough adjustment reference pattern.
Fine adjustment print pattern check:	Check that the fine adjustment print pattern is at the center for the fine adjustment reference pattern.

(If the fine adjustment print pattern is in the range of 0 ± 2 for the scale of the fine adjustment reference pattern, there is no need to adjust.)

If the adjustment is not completed with a satisfactory result, try the manual adjustment.

ADJ 4B Image registration adjustment (Manual adjustment)

1) Enter the SIM 50-20 mode.



SIMULATION NO.50-20

MANUAL ADJUSTMENT OF REGISTRATION

A : 50

[12~ 88]

A : 50 ; CYAN MAIN
B : 50 ; CYAN SUB
C : 50 ; MAGENTA MAIN
D : 50 ; MAGENTA SUB

SIM 50-20

2) Select the A4 (11 x 8 1/2) paper feed tray.

3) Press the [EXECUTE] key.

   The image registration adjustment pattern is printed.

4) Check the rough adjustment print pattern position and the fine adjustment print pattern position of each color on the front and the rear frame sides.

   Check visually and use the highest-density area of each color as the center, and regard it as the reading value of shift.

Rough adjustment print pattern check:	Check that the rough adjustment print pattern is at the center for the rough adjustment reference pattern.
Fine adjustment print pattern check:	Check that the fine adjustment print pattern is at the center for the fine adjustment reference pattern.

   (If the fine adjustment print pattern is in the range of 0 ± 2 for the scale of the fine adjustment reference pattern, there is no need to adjust.)

   If the above condition is not satisfied, change the adjustment value and tray again.

5) Select the color mode adjustment item to be adjusted with the scroll key. Change the adjustment value and to adjust.

Display		Adjustment item		Set range	Default value
A	CYAN MAIN	Main scanning direction image registration adjustment value	Cyan	12 to 88	50
B	CYAN SUB	Sub scanning direction image registration adjustment value	Cyan		
C	MAGENTA MAIN	Main scanning direction image registration adjustment value	Magenta		
D	MAGENTA SUB	Sub scanning direction image registration adjustment value	Magenta		
E	YELLOW MAIN	Main scanning direction image registration adjustment value	Yellow		
F	YELLOW SUB	Sub scanning direction image registration adjustment value	Yellow		

   When the adjustment value is changed by 1, the image position is shifted by one pixel.

Main scanning direction image position adjustment (Print engine section)

(1) How to read the fine adjustment pattern

The highest-density area of the color is regarded as the center and as the reading value of the shift amount.
(The reading value in the figure below is 4.)

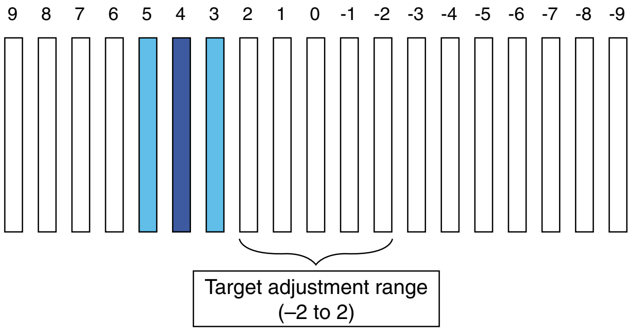
(2) How to read the rough adjustment pattern

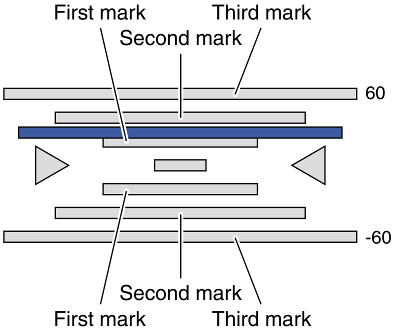
Judge the polarity by checking that the color line is shifted to the positive or the negative side.

The scales are made with the black line at the center as 0, the first mark as 20, the second mark as 40, and the third mark as 60.

The interval between rough adjustment marks is 20.
(For an example shown in the figure below, it is between 20 and 40 on the positive side. Therefore, the reading value is 20.)

(Example)





(3) How to calculate the adjustment value

New adjustment value = Current adjustment value + Rough adjustment pattern reading value + Fine adjustment pattern reading value

A: Current adjustment value

B: New adjustment value

X: Fine adjustment pattern reading value

Y: Rough adjustment pattern reading value

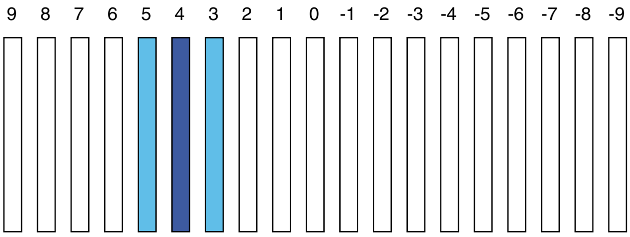
The polarity of the calculation differs depending on the polarity of the adjustment pattern reading values. There are following four cases:

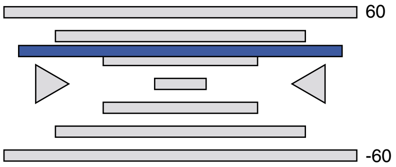
1) When $Y \geq 0$, and $X \geq 0$:
   $B = A + X + Y$
2) When $Y \geq 0$, and $X < 0$:
   $B = A + (X + 20) + Y$
3) When $Y < 0$, and $X \geq 0$:
   $B = A + (X - 20) + Y$
4) When $Y < 0$, and $X < 0$:
   $B = A + X + Y$

Example

A: Providing that Current adjustment value = 48:

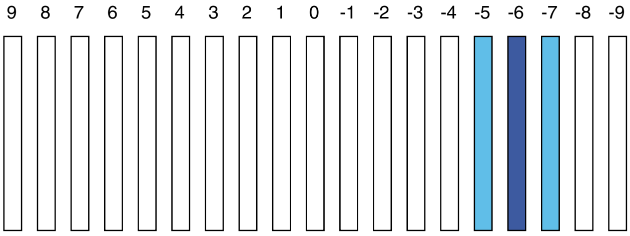
1) When $Y \geq 0$, and $X \geq 0$:

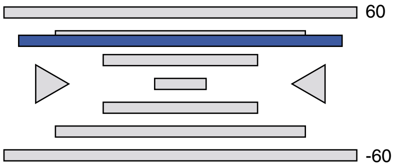

9
8
7
6
5
4
3
2
1
0
-1
-2
-3
-4
-5
-6
-7
-8
-9



$B = A + X + Y = 48 + (4) + (20) = 72$

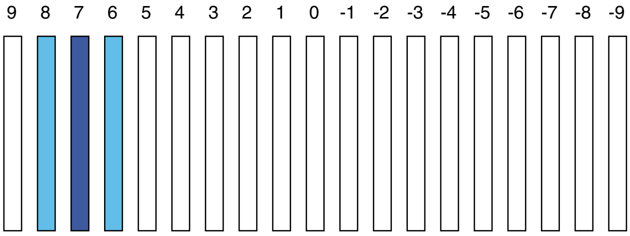
2) When $Y \geq 0$, and $X < 0$:

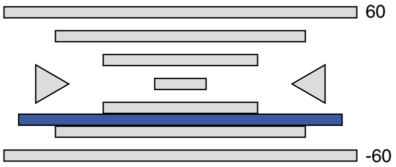

9
8
7
6
5
4
3
2
1
0
-1
-2
-3
-4
-5
-6
-7
-8
-9



$B = A + (X + 20) + Y = 48 + (-6 + 20) + (20) = 82$

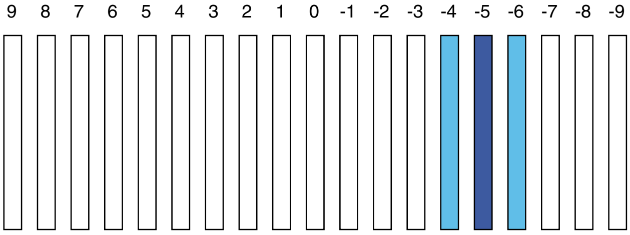
3) When $Y < 0$, and $X \geq 0$:

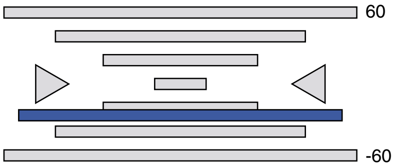

9
8
7
6
5
4
3
2
1
0
-1
-2
-3
-4
-5
-6
-7
-8
-9



$B = A + (X - 20) + Y = 48 + (7 - 20) + (-20) = 15$

4) When $Y < 0$, and $X < 0$:


9
8
7
6
5
4
3
2
1
0
-1
-2
-3
-4
-5
-6
-7
-8
-9



$B = A + X + Y = 48 + (-5) + (-20) = 23$

Sub scanning direction image position/print area adjustment (Print engine section)

(1) How to read the fine adjustment pattern

The highest-density area of the color is regarded as the center and as the reading value of the shift amount.
(The reading value in the figure below is 4.)

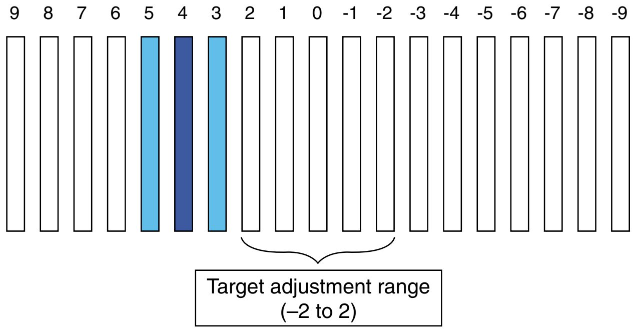
(2) How to read the rough adjustment pattern

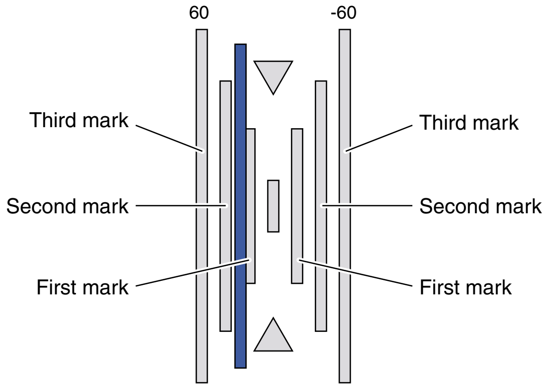
Judge the polarity by checking that the color line is shifted to the positive or the negative side.

The scales are made with the black line at the center as 0, the first mark as 20, the second mark as 40, and the third mark as 60.

The interval between rough adjustment marks is 20.
(For an example shown in the figure below, it is between 20 and 40 on the positive side. Therefore, the reading value is 20.)

(Example)


9 8 7 6 5 4 3 2 1 0 -1 -2 -3 -4 -5 -6 -7 -8 -9
Target adjustment range
(–2 to 2)


60
-60
Third mark
Third mark
Second mark
Second mark
First mark
First mark

(3) How to calculate the adjustment value

New adjustment value = Current adjustment value + Rough adjustment pattern reading value + Fine adjustment pattern reading value

A: Current adjustment value

B: New adjustment value

X: Fine adjustment pattern reading value

Y: Rough adjustment pattern reading value

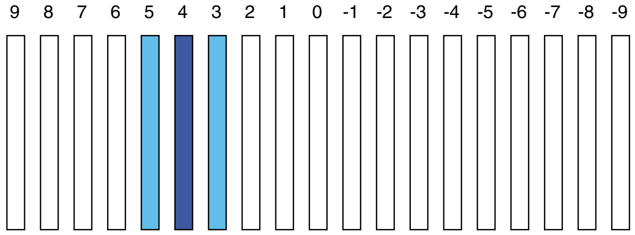
The polarity of the calculation differs depending on the polarity of the adjustment pattern reading values. There are following four cases:

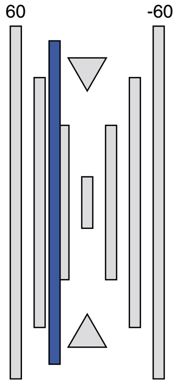
1) When $Y \geq 0$, and $X \geq 0$:
   $B = A + X + Y$
2) When $Y \geq 0$, and $X < 0$:
   $B = A + (X + 20) + Y$
3) When $Y < 0$, and $X \geq 0$:
   $B = A + (X - 20) + Y$
4) When $Y < 0$, and $X < 0$:
   $B = A + X + Y$

Example

A: Providing that Current adjustment value = 48:

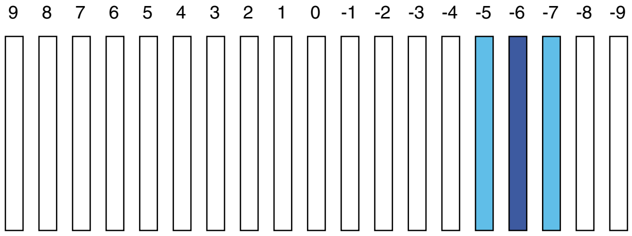
1) When $Y \geq 0$, and $X \geq 0$:

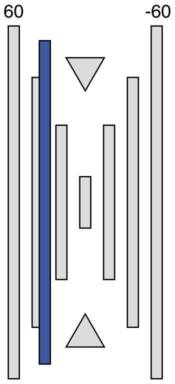

9 8 7 6 5 4 3 2 1 0 -1 -2 -3 -4 -5 -6 -7 -8 -9



$B = A + X + Y = 48 + (4) + (20) = 72$

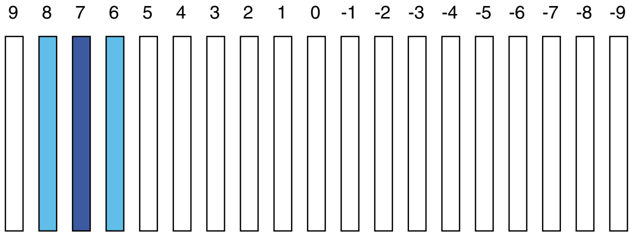
2) When $Y \geq 0$, and $X < 0$:

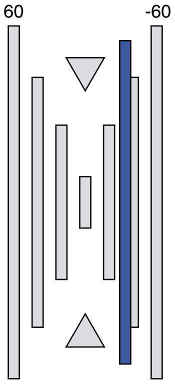

9 8 7 6 5 4 3 2 1 0 -1 -2 -3 -4 -5 -6 -7 -8 -9



$B = A + (X + 20) + Y = 48 + (-6 + 20) + (20) = 82$

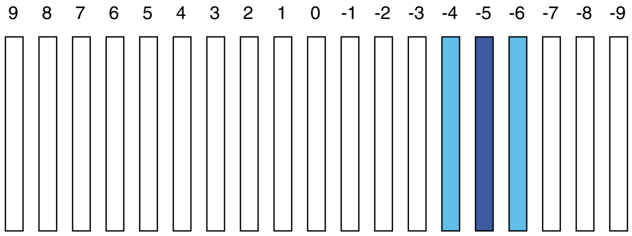
3) When $Y < 0$, and $X \geq 0$:

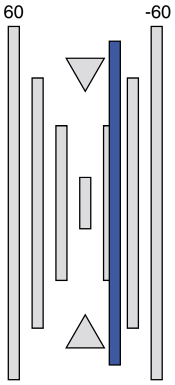

9 8 7 6 5 4 3 2 1 0 -1 -2 -3 -4 -5 -6 -7 -8 -9



$B = A + (X - 20) + Y = 48 + (7 - 20) + (-20) = 15$

4) When $Y < 0$, and $X < 0$:


9 8 7 6 5 4 3 2 1 0 -1 -2 -3 -4 -5 -6 -7 -8 -9



$B = A + X + Y = 48 + (-5) + (-20) = 23$

ADJ 5 Image position/print area adjustment (Print engine section)

ADJ 5A Main scanning direction image position adjustment (Print engine section)

This adjustment must be performed in the following cases:

- When the paper tray is replaced.
- When the paper tray section is disassembled.
- When the manual paper feed tray is replaced.
- When the manual paper feed tray is disassembled.
- When the duplex section is disassembled.
- When the duplex section is installed or replaced.
- When the large capacity paper feed tray is installed or replaced.
- When the large capacity paper feed tray is disassembled.
- When a U2 trouble occurs.
- When the ICU main PWB is replaced.
- When the EEPROM of the ICU main PWB is replaced.

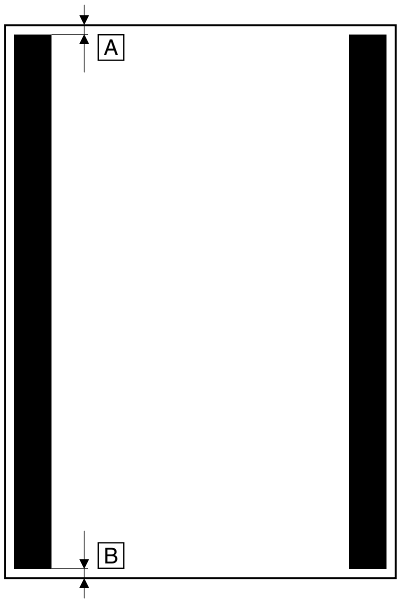
1) Enter the SIM 50-10 mode.
2) Select the paper feed mode to be adjusted with the scroll key.
3) Press the [EXECUTE] key.

   The adjustment pattern is printed.
4) Check the adjustment pattern image position.

   Measure the sizes of the void area on the front and the back edges of the adjustment pattern, and check that the following conditions are satisfied.

   If A – B = 0 ± 4.0mm, there is no need to adjust.

   If the above condition is not satisfied, perform the following procedure.



A–B = 0± 4.0mm

5) Change the adjustment value.

   (Enter the adjustment value and press the [OK] key.)

   When the adjustment value is increased, the image is shifted backward.

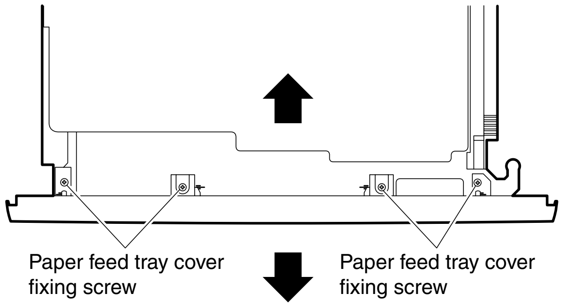
   When the adjustment value is decreased, the image is shifted forward.

   A change in the set value by 1 corresponds to a change in the shift by about 0.1mm.

   Repeat procedures 3) – 5) until the condition of procedure 4) is satisfied.

   If the above procedure does not satisfy the condition of 4), perform the following procedure.
6) Loosen the paper feed tray cover fixing screw, and shift the installing position in the arrow direction.

   Perform procedures from 2) again.


Paper feed tray cover fixing screw
Paper feed tray cover fixing screw

Perform the above procedures for all paper feed units.

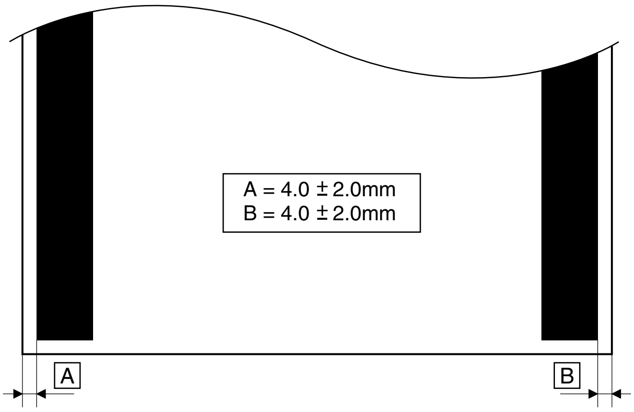
ADJ 5B Sub scanning direction image position/ print area adjustment (Print engine section)

This adjustment must be performed in the following cases:

- When a U2 trouble occurs.
- When the ICU PWB is replaced.
- When the EEPROM of the ICU PWB is replaced.

1) Enter the SIM 50-5 mode.
2) Select the paper feed mode with the scroll key.
3) Press the [EXECUTE] key.

   The adjustment pattern is printed.
4) Check the adjustment pattern image position.



   Measure the sizes of the void area on the left and the right edges of the adjustment pattern, and check that the following conditions are satisfied.

   If A = 4.0 ± 2.0mm and B = 4.0 ± 2.0mm, the adjustment is not required.

   If the above condition is not satisfied, perform the following procedure.
5) Change the adjustment values of item A (DEN-C) and B (DEN-B), and press the [EXECUTE] key.

   When the adjustment value of item A (DEN-C) is decreased by 1, the print start position in the sub scanning direction is shifted to the paper lead edge by 0.125mm.

   When the adjustment value of item B (DEN-B) is decreased by 1, the print start position in the sub scanning direction is shifted to the paper rear edge by 0.125mm.

   Repeat procedures 3) – 5) until the condition of procedure 4) is satisfied.

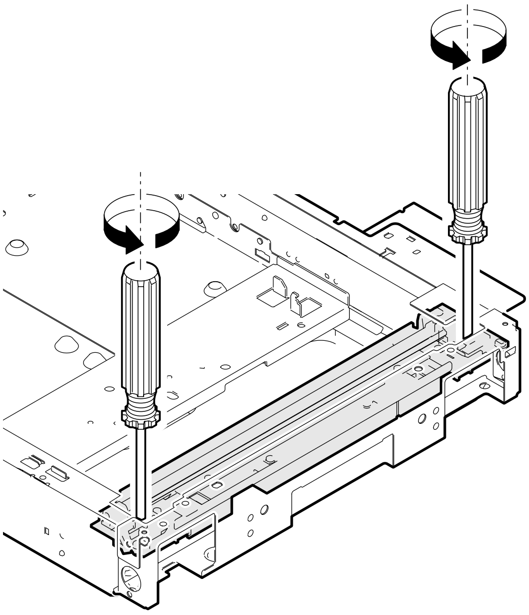
ADJ 6 Copy image distortion adjustment

This adjustment must be performed in the following cases:

- When the scanner (reading) section is disassembled.
- When a copy image distortion occurs.

ADJ 6A Scanner (reading) unit parallelism adjustment

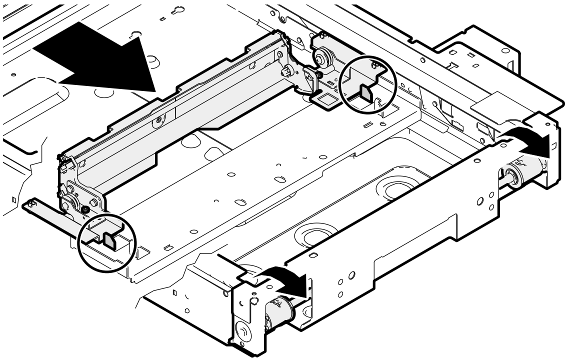
1) Loosen the screw that is fixing the scanner unit A and the drive wire, and remove the scanner unit A from the drive wire.



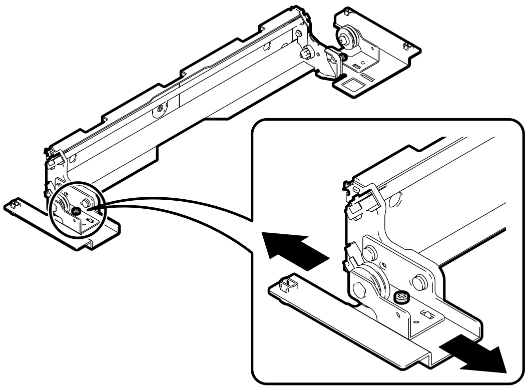
2) Manually turn the scanner drive pulley to bring the scanner unit B into contact with the stopper.

   At that time, if the scanner unit B makes contact with the two stoppers on the front and the rear frame simultaneously, the parallelism of the scanner unit B is proper.

   If not, perform the following procedures.



3) Loosen the pulley angle fixing screw on the front frame side of the scanner unit B.



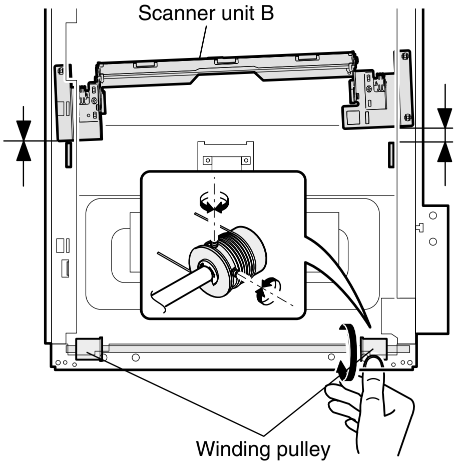
4) Adjust the pulley angle position on the scanner unit B front frame side so that both stoppers on the front frame and the rear frame are in contact with the scanner unit B at the same time.
5) Fix the pulley angle on the scanner unit B front frame side.

   If the above procedure does not result in a satisfactory result, perform the following procedure.

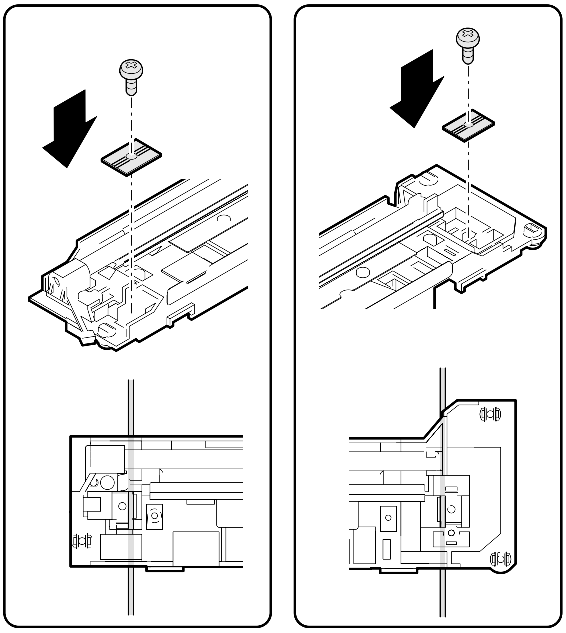
   Loosen the fixing screw of the scanner unit drive pulley that is not in contact.

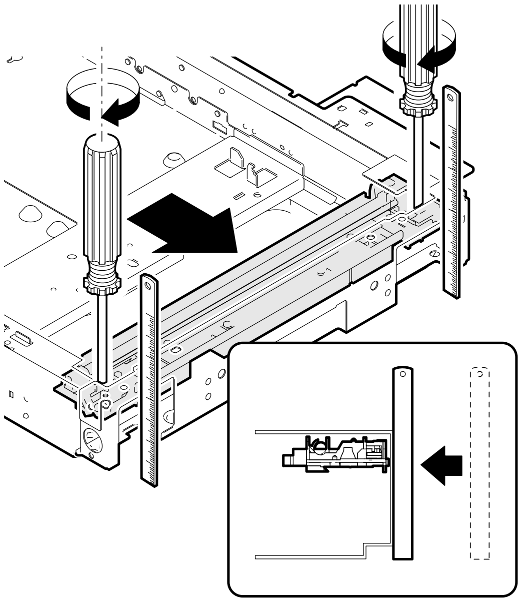
   Without moving the scanner unit drive shaft, manually turn the scanner unit drive pulley so that the scanner unit B is brought into contact with the stopper on the front frame side and the stopper on the rear frame side at the same time. (Change the relative positions of the scanner unit drive pulley and the drive shaft.)

   Fix the scanner unit drive pulley fixing screw.



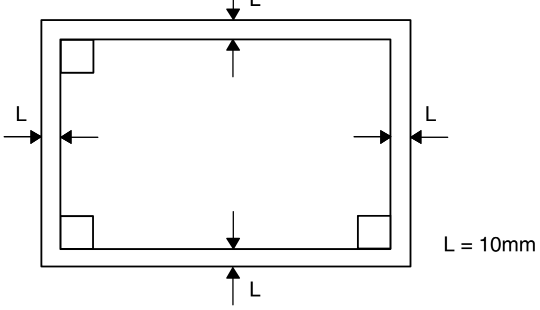
6) With the scanner unit B in contact with the both stoppers on the CCD mounting plate at the same time, fit the edge of the scanner unit A with the frame right edge and fix the scanner unit A with the screw.



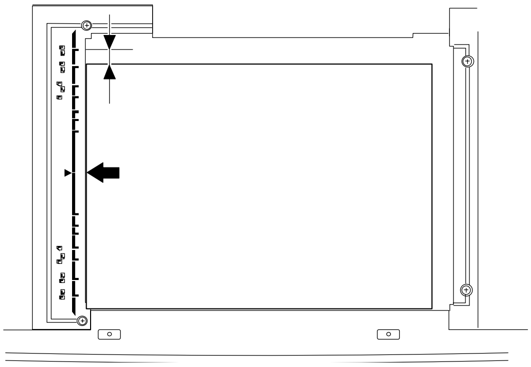


ADJ 6B Copy image sub scanning direction distortion adjustment

1) Make a test chart on A3 (11" x 17") paper as shown below. (Draw a rectangular with four right angles.)

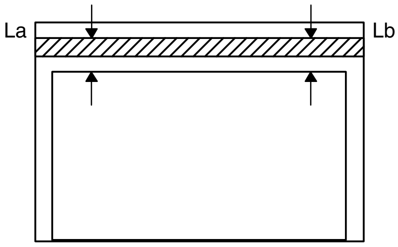


2) Set the test chart made in procedure 1) on the document table. (Leave a space of about 30mm between the reference position and the test chart.) With the document cover open, make a copy on A3 (11" x 17").



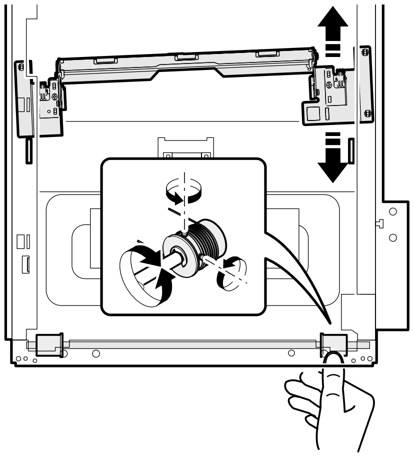
3) Check for distortion in the sub scanning direction.

If La = Lb, there is no distortion.



If there is some distortion in the sub scanning direction, perform the following procedures.

4) Loosen either of two fixing screws of the scanner unit drive pulley. (Either one on the front or the rear side will do.)



5) With the scanner unit drive shaft kept stationary, turn the scanner unit drive pulley manually to change the parallelism of scanner units A and B. (Change the relative positions of the scanner unit drive pulley and the drive shaft.)

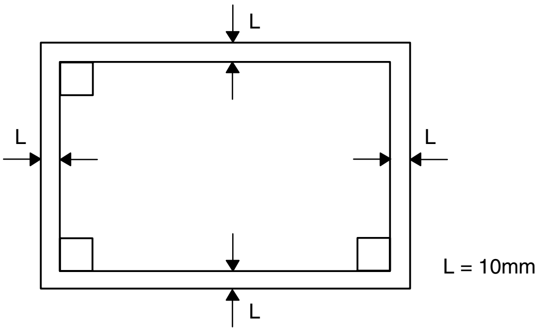
6) Tighten the scanner unit drive pulley fixing screw.

Repeat procedures 2) – 6) until the condition of procedure 3) is satisfied.

If the distortion in the sub scanning direction cannot be deleted with the above procedures, perform ADJ 6D, Scan image distortion adjustment.

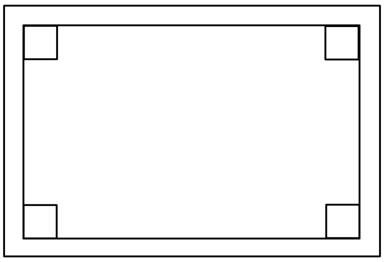
ADJ 6C Copy image main scanning direction distortion adjustment

1) Make a test chart on A3 (11" x 17") paper as shown below. (Draw a rectangle with four right angles.)



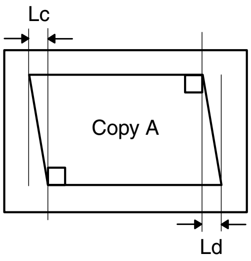
2) Set the test chart made in procedure 1) on the document table. With the document cover open, make a copy on A3 (11" x 17").
3) Check for distortion in the main scanning direction.

   If the four angles of the rectangle on the copy are right angles, there is no distortion. (Completion of the adjustment)

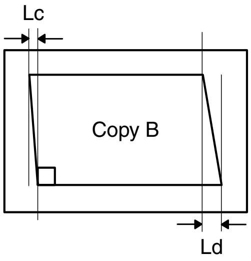


If there is some distortion in the main scanning direction, perform the following procedures

4) Check the difference (distortion balance) of left and right images distortions.



There is no difference between the distortion on the right and that on the left.
Lc = Ld



There is some difference between the distortion on the right and that on the left.
Lc ≠ Ld

   If Lc = Ld, the distortion on the left is equal to that on the right. (The distortions are balanced.)

If the above condition is satisfied, go to procedure 6).

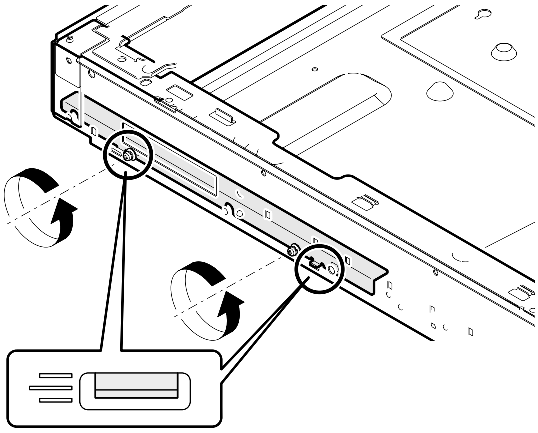
If the above condition is not satisfied, perform the following procedure.

5) Change the height balance of the front frame side scanner rail.

   [Rail adjustment]

   1) Make a copy from the table glass, and check the copy output.

      In this case, set the test chart correctly. If it is set inclined, the adjustment cannot be made correctly.
   2) If the check result is outside the specified range, perform the following procedure.
   3) Remove the front cabinet on the scanner side, and check the installing position of the MB rail.
   4) Loosen the screw on the right side of the MB rail.



Repeat procedures 2) to 5) until the image distortions are balanced.

6) Without changing the balance between the front frame side scanner rail, change the overall height.
7) Set the test chart made in procedure 1) on the document table, and make a copy on A3 (11" x 17") paper. Check that the main scanning distortion is within the specified range.

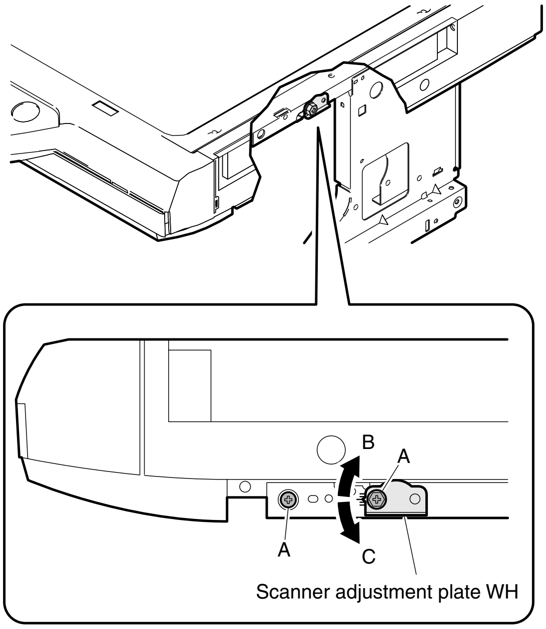
   Perform procedures 7) to 8) until the main scanning direction distortion is in the specified range.

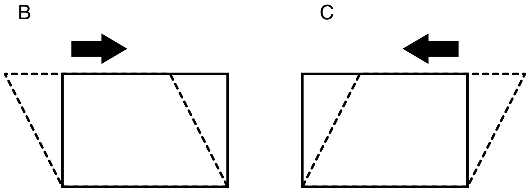
If this adjustment cannot remove the sub scanning direction distortion, perform ADJ 6D, Scan image distortion adjustment.

ADJ 6D Scan image distortion adjustment

If scan image distortion cannot be removed with ADJ 6A, ADJ 6B, and ADJ 6C, perform this adjustment.

Change the position of the scanner unit distortion adjustment plate on the right side of the scanner unit so that the scanner image distortion becomes minimum. The scan image distortion is adjusted by adjusting the overall mechanical distortion of the scanner unit.



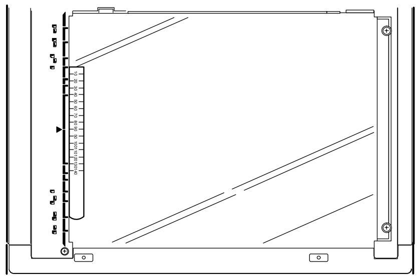


ADJ 7 Copy image focus (main scanning direction copy magnification ratio) adjustment (CCD unit position adjustment)

This adjustment must be performed in the following cases:

- When the CCD unit is removed from the machine.
- When the CCD unit is replaced.
- When the copy image focus is improper.
- When the copy magnification ratio in the copy image main scanning direction is not proper.
- When the MFP main PWB is replaced.
- When the EEPROM of the MFP main PWB is replaced.
- When a U2 trouble occurs.

1) Enter the SIM 48-1 mode.
2) Set the set item B to 50 (initial value).
3) As shown in the figure below, place a scale on the original table.



4) Make a normal copy on A4 paper.
5) Compare the scale image length and the actual scale length.
6) Obtain the main scanning direction copy magnification ratio according to the following formula.

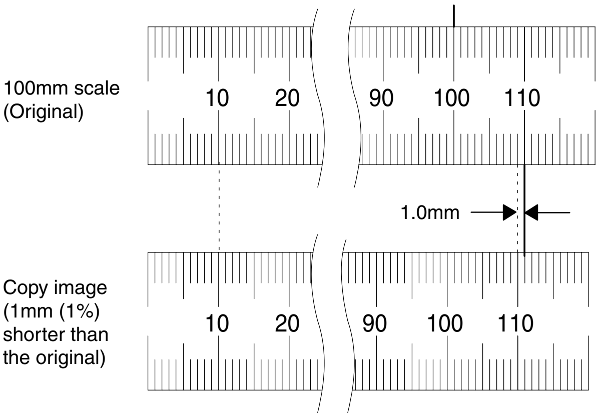
Main scanning direction copy magnification ratio

$$= \frac{\text{(Original dimension – Copy dimension)}}{\text{Original dimension}} \text{ x } 100 \text{ [\%]}$$

(Example) Fit 10mm of the scale with 10mm of the copied scale and compare them.

Main scanning direction copy magnification ration

$$= \frac{100 - 99}{100} \text{ x } 100 = 1$$

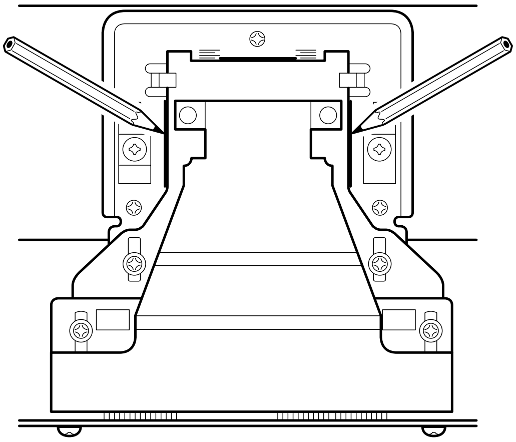


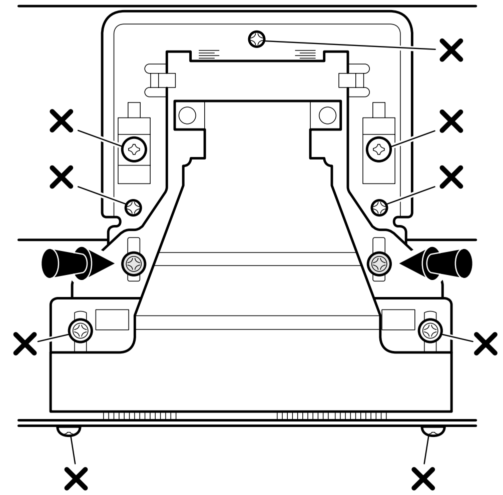
If the copy magnification ratio is not satisfactory, perform the following procedure.

7) Remove the original guide L and R, and remove the table glass.
8) Remove the dark box cover.
9) Loosen the CCD unit fixing screws.

Draw a marking line on the CCD unit base as shown below in order to avoid a shift in the optical axis of the CCD unit.

At that time, fix the CCD unit so that it is in parallel with the marked line in procedure 9).





* Never loosen the screws marked with "×."
If one of these screws is loosened, the CCD unit base position and angle may be changed. If so, it cannot be adjusted in the market, and therefore the whole scanner unit must be replaced.

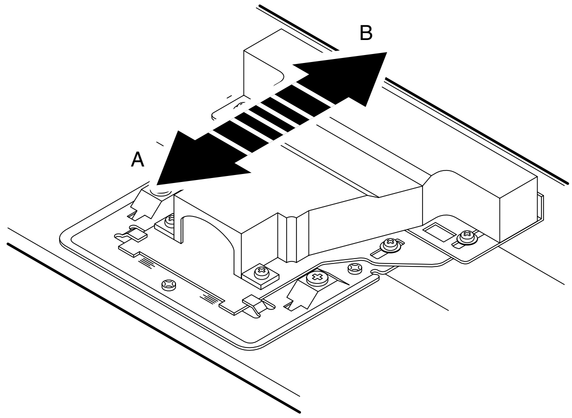
10) Slide the CCD unit in the arrow direction (CCD sub scanning direction) to change the installing position.

When the copy image is longer than the original, move in the direction of B.

When the copy image is shorter than the original, move in the direction of A.

One scale of scribe line corresponds to 0.2%.

At that time, fix so that the CCD unit is in parallel with the scales on the front frame side and on the rear frame side of the CCD unit base.



At that time, fix the CCD unit so that it is in parallel with the marked line in procedure 9).

11) Make a copy, and check the copy magnification ratio.

If the copy magnification ratio is outside the range of 100% ± 1%, repeat procedures 9) to 11) until it is in the range.

Note: Due to the structure of the optical system, when the CCD unit fixing position is changed with SIM 48-1 set to 50, the copy magnification ratio is adjusted to the specified level (100 ± 1.0%) and the specified resolution is provided.

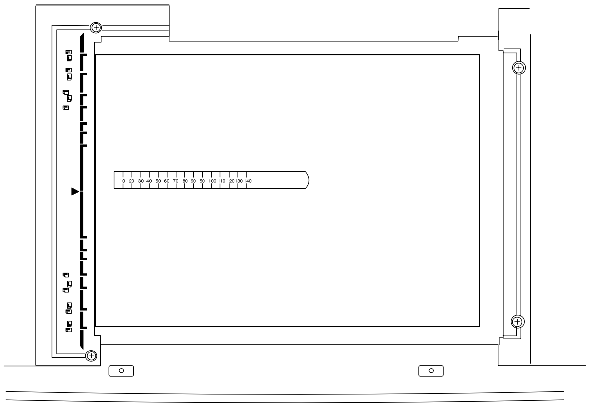
ADJ 8 Sub scanning direction copy magnification ratio adjustment

This adjustment must be performed in the following cases:

- When the copy magnification ratio in the copy image sub scanning direction is improper.
- When the scanner motor is replaced.
- When a U2 trouble occurs.
- When the MFP main PWB is replaced.
- When the EEPROM of the MFP main PWB is replaced.

Before this adjustment, perform the focus adjustment (CCD unit installing position adjustment).

1) Place a scale on the original table as shown below.

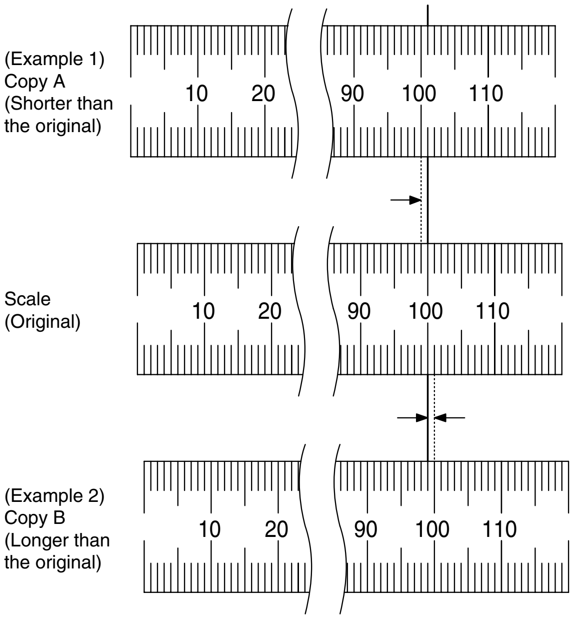


2) Enter the SIM 48-1 mode.

3) Make a normal copy and obtain the copy magnification ratios.

Copy magnification ratio

$$= \frac{\text{(Original dimension – Copy dimension)}}{\text{Original dimension}} \times 100\ [\%]$$



4) Check that the copy magnification ratio is within the specified range (100 ± 1.0%).

If the copy magnification ratio is within the specified range (100 ± 1.0%), the adjustment is completed.

If not, perform the following procedure.

5) Change the scan mode adjustment value of SIM 48-1.

When the adjustment value is increased, the sub scanning direction copy magnification ratio is increased.

A change in the adjustment value by 1 corresponds to a change in the copy magnification ratio by about 0.1%.

Repeat procedures 3) to 5) until the coy magnification ratio is within the specified range (100 ± 0.28%).

Note: Fix the adjustment value of SIM 48-1 adjustment mode (F – R) to 50.

ADJ 9 Main scanning direction copy image position adjustment (Scanner (reading) section)

This adjustment must be performed in the following cases:

When the scanner (reading) section is disassembled.

When the scanner (reading) unit is replaced.

When the RADF section is disassembled.

When the RADF unit is installed.

When the RADF unit is replaced.

When a U2 trouble occurs.

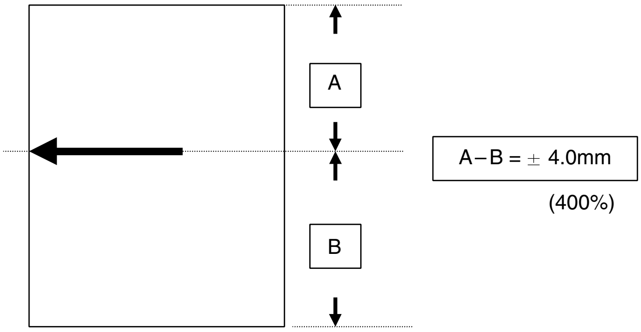
When the MFP main PWB is replaced.

When the EEPROM of the MFP main PWB is replaced.

1) Make a copy in the adjustment chart adjustment mode. (Document table or RADF)

2) Check the copy image center position.

If A – B = ± 4.0mm, there is no need to adjust.



If the above condition is not satisfied, perform the following procedures.

3) Enter the SIM 50-12 mode.

4) Select the adjustment mode with the scroll key.

5) Enter the adjustment value with the 10-key and press the [OK] key.

The entered value is set.

∗ When the set value is increased, the image is shifted to the rear side. When the set value is decreased, the image is shifted to the front side.

When the set value is change by 1, the image is shifted by about 0.4mm.

Repeat procedures 2) to 5) until the above condition is satisfied.

ADJ 10 Copy image position/image loss/ void area adjustment

This adjustment must be performed in the following cases:

- When the scanner (reading) section is disassembled.
- When the scanner (reading) unit is replaced.
- When the resist roller section is disassembled.
- When a U2 trouble occurs.
- When the MFP main PWB is replaced.
- When the EEPROM of the MFP main PWB is replaced.

This adjustment uses SIM 50-2 and SIM 50-1.

The above two simulations are used in the following manner.

SIM 50-2: Rough adjustment

SIM 50-1: Fine adjustment

If the desired value is obtained by SIM 50-2, there is no need to perform SIM 50-1.

(Adjustment item)

No.	Adjustment item	SIM 50-2 set item	SIM 50-1 set item	Adjustment value
1	Lead edge image loss	IMAGE LOSS	IMAGE LOSS	4.0 ± 1.0mm
2	Lead edge void area	DEN-A	DEN-A	4.0 ± 1.0mm
3	Rear edge void area	DEN-B	DEN-B	4.0 ± 1.0mm
4	Image reference position		RRC-A	
5	Paper timing		RRC-B	
6	Distance between image lead edge position and scale of 10mm x 10	L1		
7	Distance between paper lead edge and image lead edge x 10	L2		

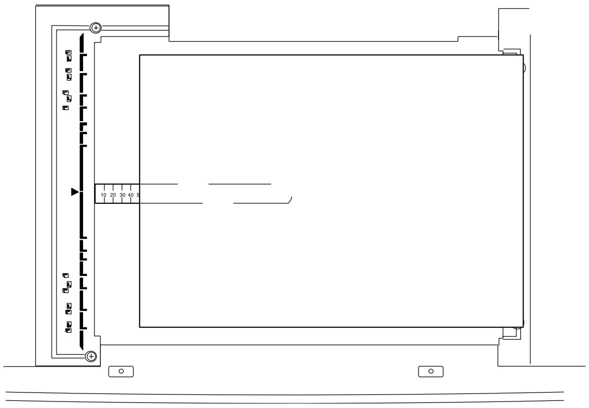
Adjustment items 1 to 3 can be adjusted either with SIM 50-1 or with SIM 50-2.

The adjustment values 6 and 7 will affect the adjustment items 4 and 5 automatically.

Therefore, adjusting the items 6 and 7 will lead to the same result as adjusting the items 4 and 5 directly.

1) Place a scale on the original table as shown below.

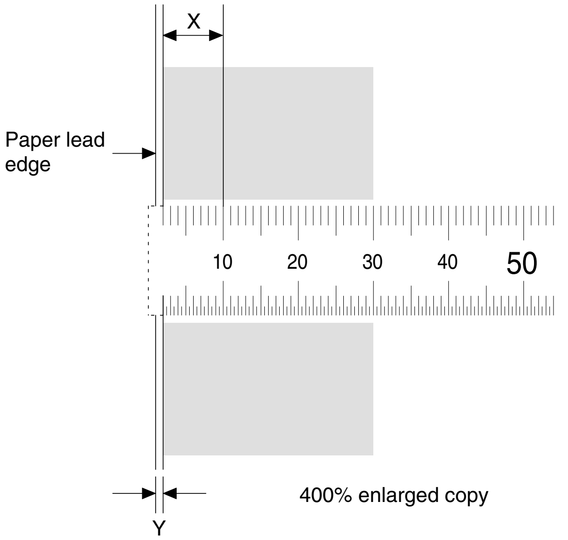
   Note that the scale must be placed in parallel with the scanning direction and that the scale lead edge must be in close contact with the original guide plate.



2) Enter the SIM 50-2 mode.
3) Set IMAGE LOSS and DEN-A to "20".
4) Set all the set items of L1 and L2 to "0".
5) Make a copy at 400%. (Original table mode)
6) Measure the copied image dimensions X and Y.

   X: Distance between the copy image lead edge and the scale of 10mm.

   Y: Distance between the paper lead edge and the copy image lead edge.



7) Multiply X, Y, and Z (unit: mm) by 10 to obtain L1, L2 respectively. Enter the values of L1, L2, and L3.

   L1 = X x 10

   L2 = Y x 10
8) Cancel the simulation, make a copy, and check that the lead edge image loss and void area are within the specified range shown below.

   Lead edge image loss: 4.0 ± 1.0mm

   Lead edge void area: 4.0 ± 1.0mm

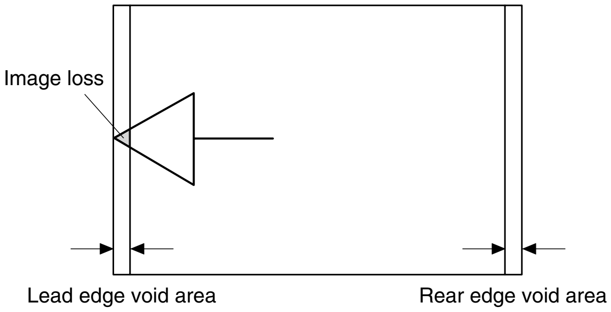
If the above specifications are not satisfied, perform the following procedures.

9) Enter the SIM 50-1 mode.
10) Set a scale in the same manner as procedure 3), and make a copy at 50% and at 400% in the original table mode.
11) Measure the distance between the paper lead edge and the copy image lead edge of 50% copy and of 400% copy.
12) Check that there is no difference between the above distance of 50% copy and that of 400% copy.

    If there is a difference of 1.5mm or above, change the adjustment value of RRC-A.

Repeat procedures 10) to 12) until the above specification is satisfied.

13) If the lead edge void area is not within the specified range, change the DEN-A value.
14) If the lead edge void area is not within the specified range, change the IMAGE LOSS value.
15) If the rear edge void area is not within the specified range, change the DEN-B value.



	Adjustment item	Adjustment value	Note
IMAGE LOSS	Lead edge image loss	4.0 ± 1.0mm	The greater the set value is, the greater the image loss is.
DEN-A	Lead edge void area	4.0 ± 1.0mm	The greater the set value is, the greater the void area is.
DEN-B	Rear edge void area	4.0 ± 1.0mm	The greater the set value is, the greater the void area is.

ADJ 11 Copy color balance/density adjustment

(1) Note for the copy color balance/density adjustment

(Necessary conditions for execution of the copy color balance/density adjustment)

Before execution of the copy color balance/density adjustment, check that all the adjustments related to the copy color balance and density have been completed properly.

The importance level is as shown below.

(Adjustment items which directly affect the copy color balance and density and must be checked or adjusted before execution of the image quality adjustment)

1) Adjustment items: ADJ 2, ADJ 3, ADJ 4

JOB No	ADJUSTMENT ITEM LIST			SIMULATION
ADJ 2	Image density sensor adjustment			44-36
ADJ 3	Image focus, image skew adjustment (LED (writing) unit)			64-1/61-4
ADJ 4	Image registration adjustment	ADJ 4A	Image registration adjustment (Auto adjustment)	50-22
		ADJ 4B	Image registration adjustment (Manual adjustment)	50-20

The user color balance adjustment must be set to the center (default).

Item	Purpose	Note
User color balance setting: Default (Center) (Special function)	Set the color balance to the standard state.	Check that it is set to the center.

The set value of SIM 46-27 is set to the default.

SIM No	Display/Item		Setting (Default)	Content	Phenomenon when the set value is changed	Phenomenon occurring when the adjustment value is not within the normal value range.	Note
46-27	A	BLACK TEXT (SLOPE)	50	Black image edge section gamma (tilt) adjustment (Black text and black line reproduction adjustment)	When the set value is increased, the contrast of black line and black text outline sections is reduced. On the contrary, when the set value is decreased, the contrast is increased. (Sharpness of black text and black lines is changed.) (Text/Printed photo, Text, Text/Photograph copy mode)	The contrast and density of lines and text outline section are changed. (Sharpness of text and lines is changed.) (Text/Printed photo, Text, Text/Photograph copy mode)	For image quality adjustment, set to 50.
	B	BLACK TEXT (INTERCEPT)	50	Black image edge section density (overall level) adjustment (Black txt and black line reproduction adjustment)	The density of black lines and black text outline is changed. (Text/Printed photo, Text, Text/Photograph copy mode)		

The set value of the following simulation must be set to the default.

SIMNo	Item	Setting (Default)	Phenomenon when the set value is changed	Note
46-1	A – R	50	The density and color balance in the low density section of color copy are changed.	Set to the default when adjusting the copy quality. Do not adjust the density in the low density section by using this simulation.
46-2	A – O	50	The density in the low density section of monochrome copy is changed.	
46-10 to 16	A – O	500	The color copy density and color balance are changed. (each copy mode)	Set to the default when adjusting the copy quality.
46-20	A – O	500	The color copy density and color balance of all copy modes are changed.	Set to the default when adjusting the copy quality.

The following functions (HV/HT/TC/RRM/MD) of SIM 44-1 must be set to Enable.

Item		Setting	Phenomenon when set to Disable	
HV	Image forming section correction (process correction) (High-density image density correction)	ENABLE	The developing bias voltage correction and the main charger grid voltage correction are not performed.	Insufficient image density, background coy, improper color balance
HT	Half-tone image density correction	ENABLE	The half-tone image density correction is not performed.	Improper half-tone image density, background copy, improper color balance, tone jump
TC	Transfer output correction	ENABLE	Correction of change due to humidity and correction of the transfer voltage are not performed.	Half-ton image section roughness, improper image density, insufficient density inside of image outlines
RRM	RRM speed correction	ENABLE	Correction of change due to humidity and correction of the rotate speed are not performed.	Improper color balance, roughness, background coy, toner dispersion, improper image density, image deflection, image flow, image dirt
MD	Photoconductor membrane decrease (sensitivity/potential) correction	ENABLE	Correction of use frequency (sensitivity change) of OPC drum is not performed. (Main charger grid voltage correction)	Improper image density, background copy
AR	Image registration automatic adjustment		Does not affect during image quality adjustment.	
AR CHK	YES/NO of error judgment in image registration automatic adjustment		Does not affect during image quality adjustment.	

(Adjustment items which affect the copy color balance/density but need not to be adjusted frequently. When, however, a trouble occurs, check and adjustment must be made.)

1) Adjustment item: ADJ 1, ADJ 7, ADJ 12, ADJ 13

JOB No	ADJUSTMENT ITEM LIST			SIMULATION
ADJ 1	High voltage adjustment	ADJ 1A	Main charger grid voltage adjustment	8-2
		ADJ 1B	DV bias voltage adjustment	8-1
		ADJ 1C	Transfer voltage adjustment	8-6
ADJ 7	Copy image focus (main scanning direction copy magnification ratio) adjustment (CCD unit position adjustment)			48-1
ADJ 12	Fusing pressure adjustment			
ADJ 13	Fusing paper guide position adjustment			

(Relationship between the service contents and the copy color balance/density adjustment)

Note that procedures before and after the copy color balance/density adjustment differ depending on the machine status and the servicing job contents.

Perform proper procedures according to the flow of the copy color balance/density adjustment.

There are following five major cases:

1) When installing
2) When periodic maintenance
3) When consumable part is replaced in repair work
4) When consumable part is not replaced in repair/checking work
5) Other repair/check

(2) Copy color balance/density adjustment procedure flow

Follow the flowchart to perform the copy color balance/density adjustment.

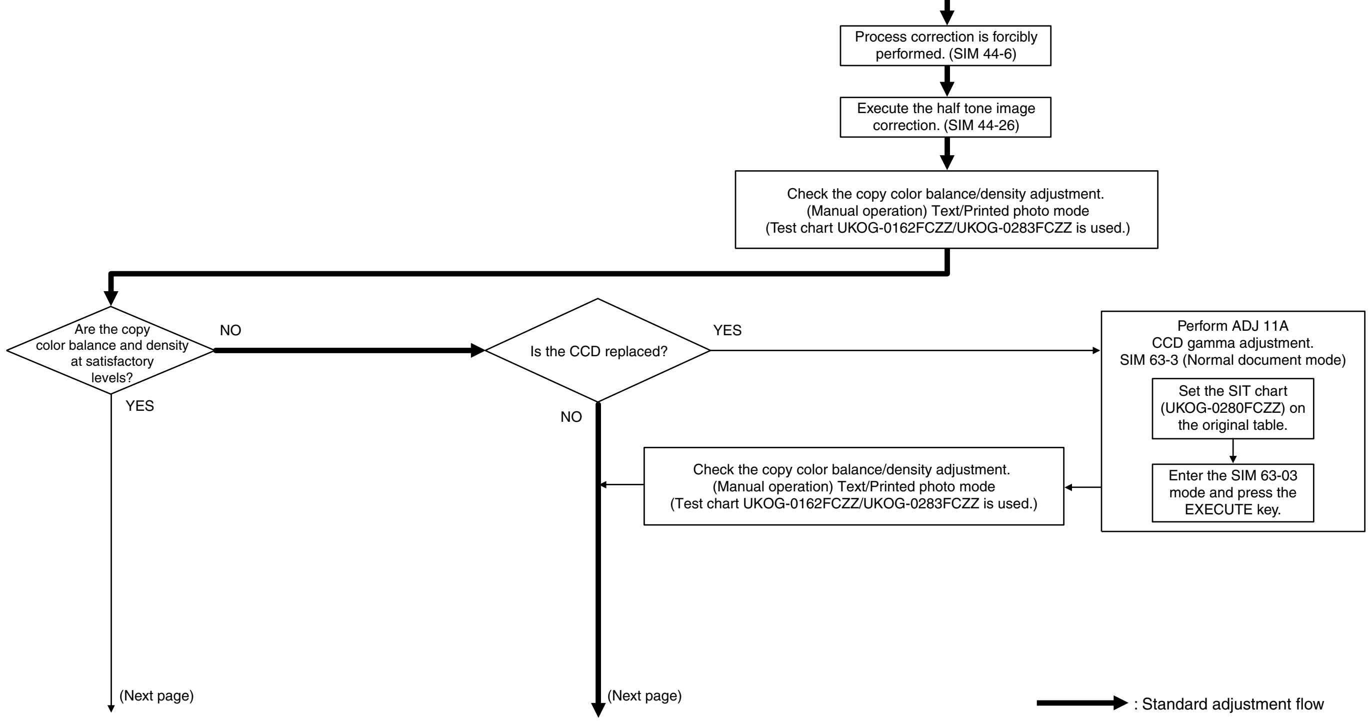
START

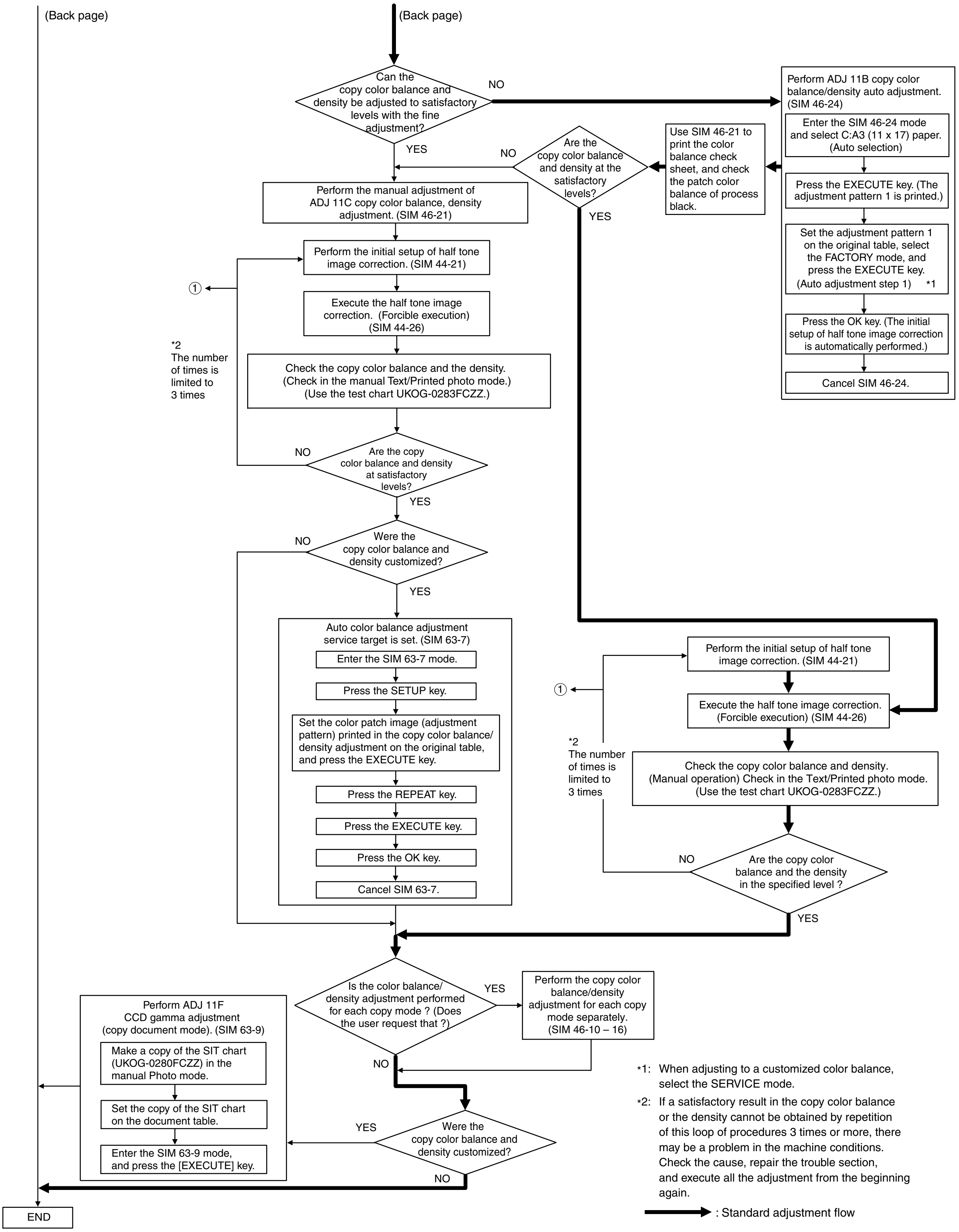
①'

JOB No	Work item	Simulation	When installing	When servicing (When a consumable part is replaced)/maintenance					When in repair/check (without replacing consumable parts)
				After replacing OPC drum	After replacement of the image density sensor	After replacing transfer belt	After cleaning scanner (reading) section	When in periodic maintenance	
ADJ 2	Image density sensor adjustment	44-13			*	*		*	
	OPC drum counter clear	24-7		*				*	
	Transfer section waste toner counter clear	24-8				*		*	
	Set the half tone correction level to zero. (Reset)	44-27		*	*	*			

JOB No	Work item	Simulation	When installing / When servicing (When a consumable part is replaced)/maintenance	When in repair/check (without replacing consumable parts)
ADJ 3	Image focus, image skew adjustment (LED (writing) unit)	64-1/61-4	*	
ADJ 4	Image registration adjustment	50-22/50-20	*	

The necessary work items for each condition are marked with " *."
When replacing a consumable part, /when repairing or checking
(without replacement of a consumable part) /
when installing the machine, follow the workflow below.


Process correction is forcibly performed. (SIM 44-6)
Execute the half tone image correction. (SIM 44-26)
Check the copy color balance/density adjustment. (Manual operation) Text/Printed photo mode (Test chart UKOG-0162FCZZ/UKOG-0283FCZZ is used.)
Are the copy color balance and density at satisfactory levels?
NO
YES
Is the CCD replaced?
YES
NO
Perform ADJ 11A CCD gamma adjustment. SIM 63-3 (Normal document mode)
Set the SIT chart (UKOG-0280FCZZ) on the original table.
Enter the SIM 63-03 mode and press the EXECUTE key.
Check the copy color balance/density adjustment. (Manual operation) Text/Printed photo mode (Test chart UKOG-0162FCZZ/UKOG-0283FCZZ is used.)
(Next page)
(Next page)
: Standard adjustment flow


(Back page)
(Back page)
Can the copy color balance and density be adjusted to satisfactory levels with the fine adjustment?
NO
YES
Perform ADJ 11B copy color balance/density auto adjustment. (SIM 46-24)
Enter the SIM 46-24 mode and select C:A3 (11 x 17) paper. (Auto selection)
Press the EXECUTE key. (The adjustment pattern 1 is printed.)
Set the adjustment pattern 1 on the original table, select the FACTORY mode, and press the EXECUTE key. (Auto adjustment step 1) *1
Press the OK key. (The initial setup of half tone image correction is automatically performed.)
Cancel SIM 46-24.
Use SIM 46-21 to print the color balance check sheet, and check the patch color balance of process black.
Are the copy color balance and density at the satisfactory levels?
NO
YES
Perform the manual adjustment of ADJ 11C copy color balance, density adjustment. (SIM 46-21)
Perform the initial setup of half tone image correction. (SIM 44-21)
①
Execute the half tone image correction. (Forcible execution) (SIM 44-26)
*2 The number of times is limited to 3 times
Check the copy color balance and the density. (Check in the manual Text/Printed photo mode.) (Use the test chart UKOG-0283FCZZ.)
NO
Are the copy color balance and density at satisfactory levels?
YES
NO
Were the copy color balance and density customized?
YES
Auto color balance adjustment service target is set. (SIM 63-7)
Enter the SIM 63-7 mode.
Press the SETUP key.
Set the color patch image (adjustment pattern) printed in the copy color balance/density adjustment on the original table, and press the EXECUTE key.
Press the REPEAT key.
Press the EXECUTE key.
Press the OK key.
Cancel SIM 63-7.
Perform the initial setup of half tone image correction. (SIM 44-21)
①
Execute the half tone image correction. (Forcible execution) (SIM 44-26)
*2 The number of times is limited to 3 times
Check the copy color balance and density. (Manual operation) Check in the Text/Printed photo mode. (Use the test chart UKOG-0283FCZZ.)
NO
Are the copy color balance and the density in the specified level ?
YES
Is the color balance/density adjustment performed for each copy mode ? (Does the user request that ?)
YES
Perform the copy color balance/density adjustment for each copy mode separately. (SIM 46-10 – 16)
NO
Perform ADJ 11F CCD gamma adjustment (copy document mode). (SIM 63-9)
Make a copy of the SIT chart (UKOG-0280FCZZ) in the manual Photo mode.
Set the copy of the SIT chart on the document table.
Enter the SIM 63-9 mode, and press the [EXECUTE] key.
YES
Were the copy color balance and density customized?
NO
END

*1: When adjusting to a customized color balance, select the SERVICE mode.

*2: If a satisfactory result in the copy color balance or the density cannot be obtained by repetition of this loop of procedures 3 times or more, there may be a problem in the machine conditions. Check the cause, repair the trouble section, and execute all the adjustment from the beginning again.

➡ : Standard adjustment flow

Copy color balance and density check

Check the color balance and the density by making copies of Sharp gray chart and the serviceman chart.

a. Note for the copy color balance check

To check the copy color balance and density, use the Sharp gray chart and the serviceman chart. In the (Manual) Text/Printed photo mode, set the copy density level to 3, and make a color copy and a B/W copy.

At that time, all the color balance adjustments of the user adjustment mode must be set to the default (center).

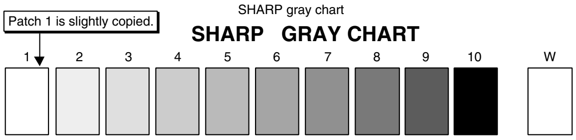
Be sure to use the specified paper for color.

[Sharp gray chart] (UKOG-0162FCZZ)

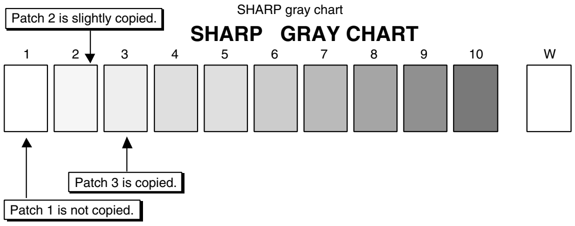
The copy image density of Sharp gray chart must be as follows:

Note: Use the color test chart (UKOG-0283FCZZ) to check the color balance.

(Color copy)


Patch 1 is slightly copied.
SHARP gray chart
SHARP GRAY CHART
1
2
3
4
5
6
7
8
9
10
W

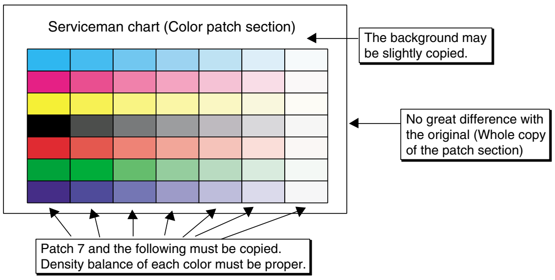
(Black-and-white copy)


Patch 2 is slightly copied.
SHARP gray chart
SHARP GRAY CHART
1
2
3
4
5
6
7
8
9
10
W
Patch 3 is copied.
Patch 1 is not copied.

[Serviceman chart] (UKOG-0283FCZZ)

Check the color balance of Serviceman chart copy is as shown below.

(Color copy)


Serviceman chart (Color patch section)
The background may be slightly copied.
No great difference with the original (Whole copy of the patch section)
Patch 7 and the following must be copied. Density balance of each color must be proper.

ADJ 11A CCD gamma adjustment (CCD calibration) (Normal document copy mode)

This adjustment must be performed in the following cases:

- When the CCD unit is replaced.
- When a U2 trouble occurs.
- When the MFP PWB is replaced.
- When the EEPROM of the MFP PWB is replaced.
- When replacing a part in the scanner (reading) section.

When the CCD unit is replaced, be sure to perform this adjustment.

(1) Precautions for adjustment

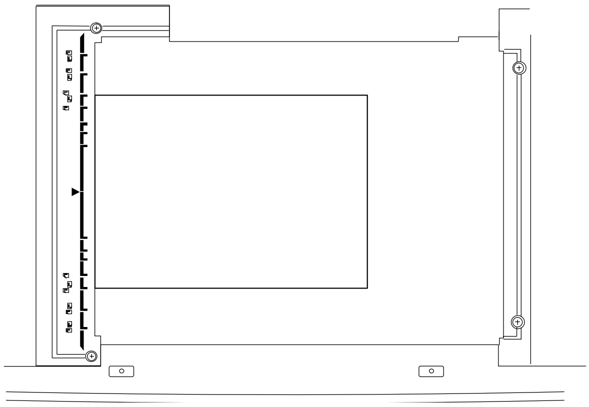
1) Check that the table glass and No. 1, 2, 3 mirrors and lenses are free from dust and dirt. (If there is dust and dirt, clean with alcohol.)
2) Check that there is no dirt or scratch on BK1 and BK2 patches of SIT chart (UKOG-0280FCZZ).

   If there is dirt, clean with alcohol.

   If there is scratch, replace the chart with new one.

(2) Adjustment procedures

1) Set the SIT chart (UKOG-0280FCZZ) to the left edge of the original table, and fit the center of SIT chart with the center of the glass holder.



When SIT chart is not available, execute SIM 63-5 to set the CCD gamma to the default. This method, however, provides a lower adjustment accuracy than the method by using SIT chart.

Note: Check that the SIT chart (UKOG-0280FCZZ) is closely placed on the original table.

2) With the SIT chart (UKOG-0280FCZZ) fixed, close the original cover.
3) Enter the SIM 63-03 mode, and press the [EXECUTE] key.

   The automatic adjustment is started. During the automatic adjustment, the [EXECUTE] key is highlighted. When the adjustment is completed, the key returns to the normal display.

Note: The SIT chart (UKOG-0280FCZZ) is affected by light (especially by ultraviolet rays) and temperature and humidity. Put it in a bag (clear file, etc.) and store in a dark place.

ADJ 11B Copy color balance adjustment (Auto adjustment)

This adjustment must be performed in the following cases:

- When a consumable part (developer, OPC drum, the transfer belt) is replaced.
- When the CCD unit is replaced.
- When a U2 trouble occurs.
- When the MFP PWB is replaced.
- When the EEPROM of the MFP PWB is replaced.

The color balance adjustment (auto adjustment) is the automatic adjustment of cyan, magenta, yellow, and black copy density with SIM 46-24.

(When this adjustment is performed, the color balance adjustments in all the copy modes are renewed.)

(Note for performing the color balance adjustment (Auto adjustment))

1) The print engine section must be properly adjusted.
2) CCD gamma adjustment must be properly adjusted.
3) When setting the color patch image (adjustment pattern) paper on the original table, place 5 sheets of white paper on the color patch image paper.
4) Be sure to use the specified color paper.

Before execution of the copy quality check and the copy quality adjustment, be sure to execute the following corrections forcibly to set the image forming section to the optimum state.

- Execute the process correction forcibly. (SIM 44-6)
- Execute the half-tone image correction forcibly. (SIM 44-26)

a. Outline

The color balance adjustment (auto adjustment) is the automatic adjustment of cyan, magenta, yellow, and black copy density with SIM 46-24 or user program.

There are following two modes of auto color balance adjustment:

1) Auto color balance adjustment by the serviceman (with SIM 46-24)
2) Auto color balance adjustment by the user (with the user program) (The color balance target becomes the service target.)

The auto color balance adjustment by the user is provided in order to reduce the number of service calls.

If the copy color balance is shifted by some reason, the user performs the color balance adjustment to correct it.

If, however, there is a basic problem in the machine, or if the machine environment is changed largely, this function does not serve as an effective means.

While the automatic color balance adjustment by the serviceman allows adjustment even when the machine environment is changed largely, providing normal color balance. If there is a basic problem in the machine, repair it and adjust to provide normal color balance.

The above points must be fully understood for proper operation.

When this adjustment is performed, the color balance adjustment of all the copy modes are changed.

b. Adjustment procedure

(Auto color balance adjustment by the serviceman)

1) Enter the SIM 46-24 mode.
2) Press the [EXECUTE] key.

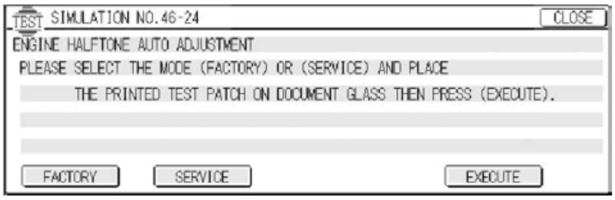
(A3 or 11 x 17 paper is automatically selected.)

The color patch image (adjustment pattern) is printed.

3) Set the color patch image (adjustment pattern) printed in procedure 2) on the original table so that the dark density side of the color patch image comes to the left side. Place 5 sheets of white paper on the color patch image (adjustment pattern) paper.
4) Press the FACTORY key on the operation panel and press the [EXECUTE] key.

The copy color balance adjustment (step 1) is automatically performed, and the color balance check patch image is printed. Wait for a while until the operation menu of procedure 5) is displayed.

When the color balance is customized by the manual color balance (SIM 46-21) according to the user's request and then the color balance is registered as the service target by SIM 63-7, select the service target in order to adjust to that color balance.



SIMULATION NO.46-24

ENGINE HALFTONE AUTO ADJUSTMENT

PLEASE SELECT THE MODE (FACTORY) OR (SERVICE) AND PLACE THE PRINTED TEST PATCH ON DOCUMENT GLASS THEN PRESS (EXECUTE).

Note: (Descriptions on the factory and the service key button in the color balance automatic adjustment menu)

There are two kinds of gamma targets for the color balance automatic adjustment: factory and service.

The factory key button and the service key button are used to select between them.

Factory target gamma: Standard color balance (Fixed)

Service target gamma: Color balance can be customized according to the user request. (Variable)

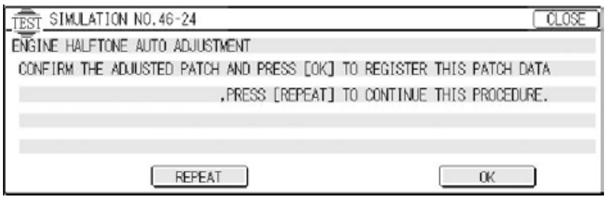
When shipping from the factory, the service target gamma data are same as the factory target gamma data.

Both are set to the standard color balance gamma.

In the service target, a customized color balance can be registered with SIM 63-7. In the factory target, it cannot be changed.

5) Press the OK key on the operation panel.

The initial setup of half tone image correction is performed according to this adjustment data.



SIMULATION NO.46-24

ENGINE HALFTONE AUTO ADJUSTMENT

CONFIRM THE ADJUSTED PATCH AND PRESS [OK] TO REGISTER THIS PATCH DATA ,PRESS [REPEAT] TO CONTINUE THIS PROCEDURE.

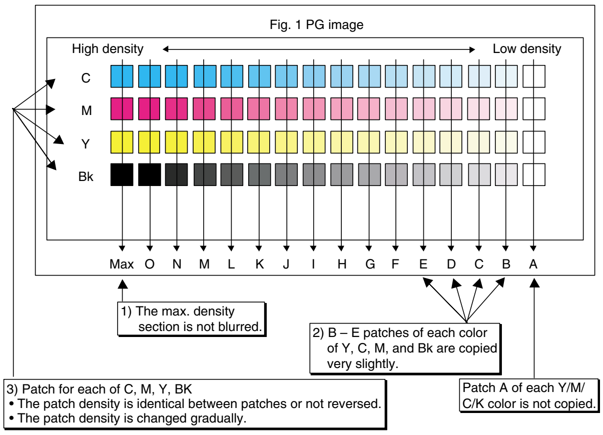
Note: When OK key is pressed, initial setup of half-tone image correction is started. During this operation, "Copy Quality is being adjusted" is displayed. It takes several minutes to complete this operation.

After completion of this operation, "Please quit this mode" is displayed.

Do not cancel the simulation until "Please quit this mode" is displayed.

6) Check that the color balance check patch image printed at last is within the specified range shown below.

Fig. 1 PG image


High density
Low density
C
M
Y
Bk
Max
O
N
M
L
K
J
I
H
G
F
E
D
C
B
A
1) The max. density section is not blurred.
2) B – E patches of each color of Y, C, M, and Bk are copied very slightly.
3) Patch for each of C, M, Y, BK
• The patch density is identical between patches or not reversed.
• The patch density is changed gradually.
Patch A of each Y/M/C/K color is not copied.

The print density should vary gradually from the lower density to the higher density without reversion of changing direction.

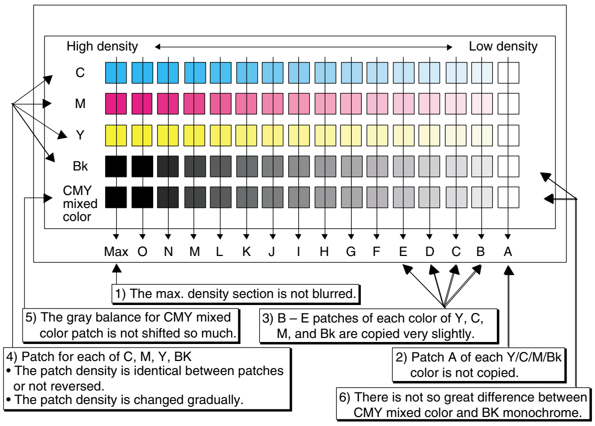
The density level of each color should be almost the same.

It is acceptable for patch B not to be copied.

Patch A is not copied.

Use SIM 46-21 to print the color balance adjustment sheet and compare each process (CMY) black patch color balance and the black patch. This allows a correct check on the color balance adjustment result.

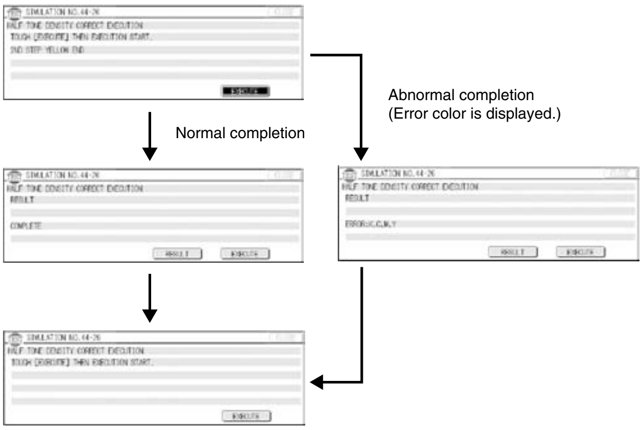
If the color balance of each process (CMY) black patch in A to O is near the black patch referring to the patch, it is judged that the color balance has been correctly adjusted.


High density
Low density
C
M
Y
Bk
CMY mixed color
Max
O
N
M
L
K
J
I
H
G
F
E
D
C
B
A
1) The max. density section is not blurred.
5) The gray balance for CMY mixed color patch is not shifted so much.
3) B – E patches of each color of Y, C, M, and Bk are copied very slightly.
4) Patch for each of C, M, Y, BK
• The patch density is identical between patches or not reversed.
• The patch density is changed gradually.
2) Patch A of each Y/C/M/Bk color is not copied.
6) There is not so great difference between CMY mixed color and BK monochrome.

If, however, the user requests to customize the color balance instead of using the standard color balance and the color balance is in a satisfactory level, go to Step 10).

If the color balance is not satisfactory, perform the manual color balance adjustment (ADJ 11C).

7) Execute the half tone image correction. (Forcible execution) (SIM 44-26)



SIMULATION NO.44-26
HALF TONE DENSITY CORRECT EXECUTION
TOUCH [EXECUTE] THEN EXECUTION START.
2ND STEP YELLOW END

SIMULATION NO.44-26
HALF TONE DENSITY CORRECT EXECUTION
RESULT
COMPLETE

SIMULATION NO.44-26
HALF TONE DENSITY CORRECT EXECUTION
RESULT
ERROR:K,C,M,Y

EXECUTE
Normal completion
Abnormal completion
(Error color is displayed.)
RESULT
EXECUTE

When [EXECUTE] key is pressed, it is highlighted and the operation is started. It takes several minutes to complete the operation. When the operation is completed, the screen returns to the original state.

After completion of the operation, cancel the simulation.

8) Use the test chart UKOG-0283FCZZ and check the copy color balance and the density in Text/Photo mode. (Refer to the section of the copy color balance and the density.)

If the copy color balance and density are not in the satisfactory level, perform the following procedures.

9) Perform initial setup of half tone image correction. (SIM 44-21)
10) Perform half tone image correction. (Forcible execution) (SIM 44-26)
11) Use the test chart UKOG-0283FCZZ and check the copy color balance and the density in manual Text/Printed photo mode. (Refer to the section of the copy color balance and the density.)

Repeat procedures 9) to 11) until they are at the satisfactory level.

However, repetition is limited to three times.

If a satisfactory result in the copy color balance or the density cannot be obtained by repetition of the above procedures 3 times or more, there may be a problem in some other sections.

Investigate the reason and repair or fix the problem, then perform all the procedures of print quality adjustment from the beginning.

If a satisfactory result in the copy color balance or the density cannot be obtained by the automatic adjustment, use SIM46-21 (ADJ11C) (automatic adjustment).

ADJ 11C Copy color balance adjustment (Manual adjustment)

This adjustment must be performed in the following cases:

- When a consumable part (developer, OPC drum, the transfer belt) is replaced.
- When the CCD unit is replaced.
- When the scanner (reading) section is cleaned.
- When a U2 trouble occurs.
- When the MFP PWB is replaced.
- When the EEPROM of the MFP PWB is replaced.

The color balance adjustment (Manual) is used to manually adjust each color copy density (C, Y, M, K) (15 points for each color) when the result of the previous automatic adjustment is unsatisfactory or when a fine adjustment is required, or when the user requests to change (customize) the color balance.

a. Note for the adjustment

This adjustment is performed only for the color patch whose result of the previous automatic adjustment is unsatisfactory.

If the color balance is out of the normal conditions, execute SIM 46-24 to make the color balance adjustment (Auto) and then execute this adjustment. This sequence leads to a better work efficiency.

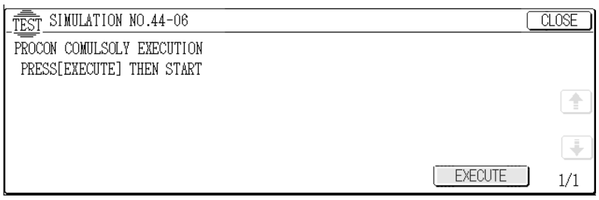
Before execution of the copy quality check and the copy quality adjustment, be sure to execute the following corrections forcibly to set the image forming section to the optimum state.

＊ Execute the process correction forcibly. (SIM 44-6)

＊ Execute the half tone image correction forcibly. (SIM 44-26)

b. Adjustment procedures

＊ Before executing the copy color balance adjustment (Manual), perform SIM 44-6 to make a compulsory process correction, updating the developing bias voltage and the main charger voltage to the latest levels.



SIMULATION NO.44-06
PROCON COMULSOLY EXECUTION
PRESS[EXECUTE] THEN START

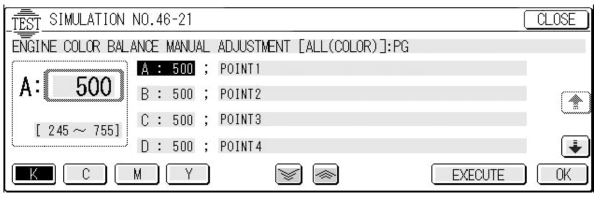
TEST
CLOSE
EXECUTE
1/1

When [EXECUTE] key is pressed, the operation is started.

It takes several minutes to complete the operation. When the operation is completed, "COMPLETE" is highlighted.

After completion of the operation, cancel the simulation.

1) Enter the SIM 46-21 mode.



SIMULATION NO.46-21
ENGINE COLOR BALANCE MANUAL ADJUSTMENT [ALL(COLOR)]:PG
A: 500
[245 ～ 755]
A : 500 ; POINT1
B : 500 ; POINT2
C : 500 ; POINT3
D : 500 ; POINT4

TEST
CLOSE
K
C
M
Y
EXECUTE
OK

2) Select PAPER SEL with the scroll key and select A3 (11 x 17) paper.

Enter the set value corresponding to the paper feed section with A3 (11 x 17) paper in it, and press the OK key.

3) Press the [EXECUTE] key.

The color balance adjustment pattern is printed.

4) Check that the printed pattern is in the following specification or in the desired color balance.

If not, perform the following procedures.

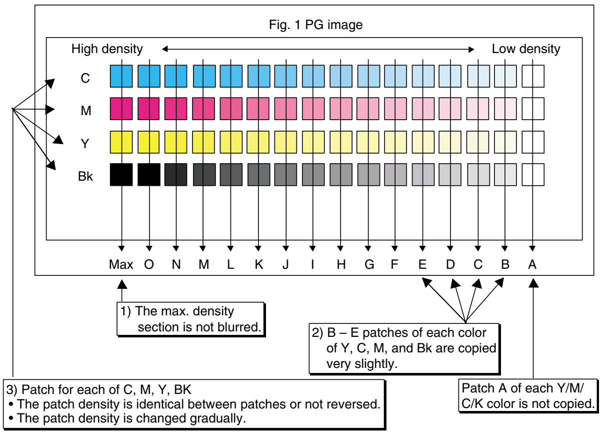


Fig. 1 PG image

1) The max. density section is not blurred.

2) B – E patches of each color of Y, C, M, and Bk are copied very slightly.

3) Patch for each of C, M, Y, BK
- The patch density is identical between patches or not reversed.
- The patch density is changed gradually.

Patch A of each Y/M/C/K color is not copied.

The print density should vary gradually from the lower density to the higher density without reversion of changing direction.

The density level of each color should be almost the same.

It is acceptable for patch B not to be copied.

Patch A is not copied.

When, however, the color balance is adjusted according to the users request, there is no need to adjust to the standard color balance as stated above.

5) Select the color to be adjusted and select the adjustment point with the scroll key.

6) Enter the adjustment value with the 10-key and press the OK key.

   The adjustment value can be selected in the range of 245 to 755 (1 to 999). When SIM 46-24 is used to perform the automatic color balance and the density adjustment, all the set values of this simulation are set to 500.

   To increase the density, increase the adjustment value. To decrease the density, decease the adjustment value.

   Repeat procedures 3) to 6) until the condition of procedure 4) is satisfied.

When the overall density is low or patch A is copied with a high density, use the arrow keys to change all the adjustment values of A to O simultaneously and uniformly.

Then perform the patch density adjustment. This allows to make an efficient adjustment.

By using the black patch as the reference, adjust so that the color balance of the black patch of each process (CMY) in A to O becomes virtually same as the black patch.

In this simulation mode, press CLEAR key to return to the normal copy mode and make actual copies of the service chart and user documents. Check the adjustment result.

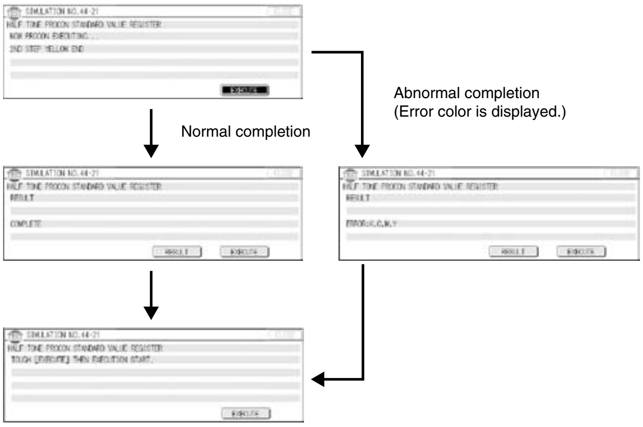
7) Execute SIM 44-21.

   The initial setup of half tone image correction is performed.

This procedure is to store the copy color balance adjustment data as the reference data for half-tone correction.

This procedure should be always executed immediately after completion of ADJ 11C (Color balance adjustment (Manual)) with SIM 46-21.

When ADJ 11B (Color balance adjustment (Auto)) is performed with SIM 46-24, this procedure is automatically performed.



SIMULATION NO.44-21
HALF TONE PROCON STANDARD VALUE REGISTER
NOW PROCON EXECUTING...
2ND STEP YELLOW END

SIMULATION NO.44-21
HALF TONE PROCON STANDARD VALUE REGISTER
RESULT
COMPLETE

SIMULATION NO.44-21
HALF TONE PROCON STANDARD VALUE REGISTER
RESULT
ERROR:K,C,M,Y

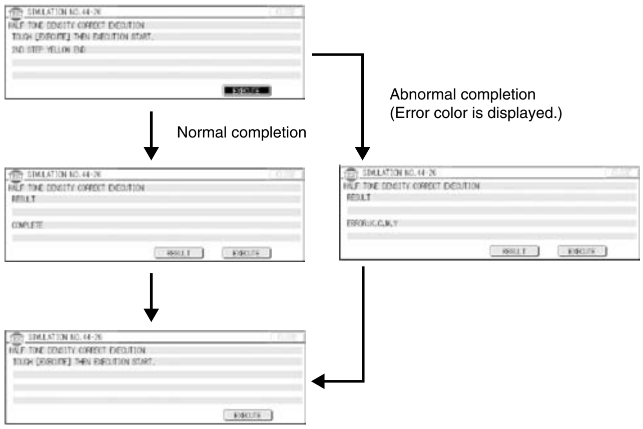
SIMULATION NO.44-21
HALF TONE PROCON STANDARD VALUE REGISTER
TOUCH [EXECUTE] THEN EXECUTION START.

When [EXECUTE] key is pressed, it is highlighted and the operation is started.

It takes several minutes to complete the operation. When the operation is completed, the screen returns to the original state.

After completion of the operation, cancel the simulation.

8) Execute the half tone image correction. (Forcible execution) (SIM 44-26)



SIMULATION NO.44-26
HALF TONE DENSITY CORRECT EXECUTION
TOUCH [EXECUTE] THEN EXECUTION START.
2ND STEP YELLOW END

SIMULATION NO.44-26
HALF TONE DENSITY CORRECT EXECUTION
RESULT
COMPLETE

SIMULATION NO.44-26
HALF TONE DENSITY CORRECT EXECUTION
RESULT
ERROR:K,C,M,Y

SIMULATION NO.44-26
HALF TONE DENSITY CORRECT EXECUTION
TOUCH [EXECUTE] THEN EXECUTION START.

When [EXECUTE] key is pressed, it is highlighted and the operation is started. It takes several minutes to complete the operation. When the operation is completed, the screen returns to the original state.

After completion of the operation, cancel the simulation.

9) Use the test chart UKOG-0283FCZZ and check the copy color balance and the density in the Text/Printed photo mode. (Refer to the section of the copy color balance and the density check.)

   If the copy color balance and the density are not in the specified level, repeat procedures 7) through 9) until they are in the specified level.

However, repetition is limited to three times. If repetition of the above procedures does not set the copy color balance and the density to the specified level, there may be some other reason.

Investigate the reason and repair or fix the problem, then perform all the procedures of print quality adjustment from the beginning.

10) When the color balance is customized, register the color balance as the service target by SIM 63-7.

   When the color balance is not customized, there is no need to perform this work.

   If the customized color balance is registered as the service target, when the color balance is adjusted in the next time, the automatic color balance adjustment mode can be used.

   In the next color balance adjustment, select the service target color balance in the automatic color balance adjustment mode, and the color balance will be adjusted to the same color balance as registered this time.

(Auto color balance adjustment service target gamma setup)

a. Outline

Auto color balance adjustment is performed with a certain color balance (gamma) as a target.

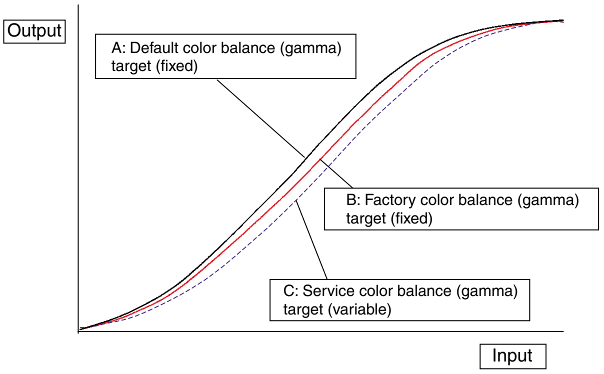
There are following two kinds of targets:

Only the service target among them allows optional setup of a color balance (gamma) target.

This setup must be performed in the following cases.

- When the copy color balance and the density adjustment is manually performed. (SIM 46-21)
- When a U2 trouble occurs.
- When the MFP PWB is replaced.
- When the EEPROM on the MFP PWB is replaced.
- When the user requests to customize the color balance.
- When the service target gamma is found to be incorrect.

Kinds of color balance (gamma) target



Note: The above figure is for a brief description, and does not show the actual state.

Kinds		Descriptions
A	Default color balance (gamma) target (fixed)	This is the average, standard color balance (gamma) target determined by the machine design. This color balance (gamma) target is identical in all the machines, without consideration for individuality of machines. When SIM 63-8 is executed, the service color balance (gamma) target becomes the same as this target. In SIM 46-24 menu, this target is not displayed.
B	factory color balance (gamma) target (fixed)	This is the standard color balance (gamma) target which was registered (set) in the factory, and cannot be changed in the market. This color balance (gamma) target is set depending on individuality of each machine to obtain the standard color balance. It, therefore, differs slightly in different machines. When the service target falls into an abnormal state by some reasons, this target can be used instead of it. When shipping, this target is the same as the service color balance (gamma) target.
C	Service color balance (gamma) target (variable)	This is the color balance target which the serviceman can register (set). This is obtained by registering (setting) with SIM 63-7 the adjustment pattern of the color balance (gamma) which was adjusted with SIM 46-21. This color balance (gamma) target is set depending on individuality of each machine to obtain the standard color balance. It, therefore, differs slightly in different machines. However, an optional color balance (gamma) target can be set according to a user's request. When shipping, this target is the same as the factory color balance (gamma) target. When SIM 63-8 is executed, the service color balance (gamma) target becomes the same as the default color balance (gamma) target. This target is used at the auto color calibration by user.

Note: Do not execute SIM 63-8 unless there is any special reason.

(Meaning of the service target gamma data and purpose of registration)

This work must be executed only when the color balance is customized by SIM 46-21.

If the color balance is not customized, there is no need to perform this work.

Execute SIM 46-21 to adjust the color balance (Manual) according to the user request (customized color balance). Then use the adjustment pattern printed in this mode to register the service target gamma data with SIM 63-7.

This will revise the service target gamma data.

It is recommendable to record the adjustment pattern printed in the above procedure. By using the adjustment pattern, the same color balance target can be registered in another machine. It is also useful to register the service target gamma data again.

Be careful, however, not to fold the pattern or avoid discoloration and dirt.

Basically the service target gamma data must be registered immediately after completion of the color balance adjustment (Manual) with SIM 46-21.

If a considerable time has passed after completion of the color balance adjustment (Manual) with SIM 46-21, the color balance of the adjustment pattern after a considerable time differs from that before a considerable time. Do not use such an adjustment pattern.

Whether the service target gamma data are correct or not can be determined by the following.

When the adjustment result of SIM 46-24 color balance adjustment (Auto) by selecting the service target is abnormal or unsatisfactory:

In this case, the service target gamma data may be incorrect.

The possible cause is incorrectness or abnormality of the color balance adjustment pattern used when registering the service target gamma data of the color balance adjustment (Auto) with SIM 63-7.

The color balance adjustment pattern is printed after the color balance adjustment (Manual) with SIM 46-21. The possible cause lies in this procedure.

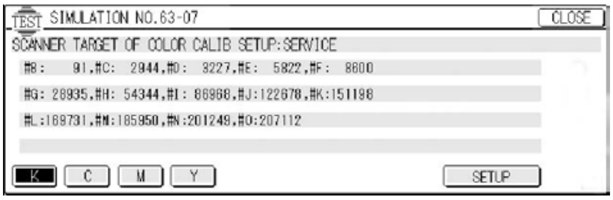
b. Setup procedure

(Procedure to set the an optional color balance (gamma) as the service target)

1) Two sheets of color patch image (adjustment pattern) are outputted in the copy color balance adjustment (manual adjustment) (SIM 46-21). (ADJ 11C)

   At that time, when the color balance is shifted from the standard, an adjustment is required. If not, there is no need to adjust.
   If an optional color balance is required according to the user's request, an adjustment is required.

2) Enter the SIM 63-7 mode.



SCANNER TARGET OF COLOR CALIB SETUP:SERVICE

```
#B:    91,#C:  2944,#D:  3227,#E:  5822,#F:  8600
#G: 28935,#H: 54344,#I: 86968,#J:122678,#K:151198
#L:169731,#M:185950,#N:201249,#O:207112
```

3) Press the SETUP key.

4) Set the color patch image (adjustment pattern) paper properly adjusted and printed in the copy color balance adjustment (manual adjustment) (SIM 46-21) (ADJ 11C) on the original table.

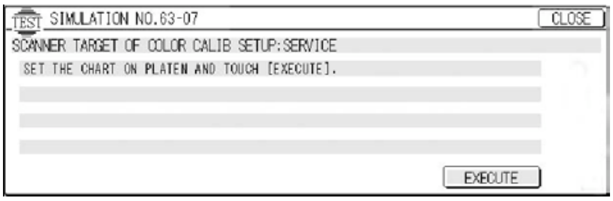
   The color patch image (adjustment pattern) printed by SIM 64-2 may be used. In this case, check that the printed image is proper. (The other color patch images (adjustment patterns) printed by another machine may be used.)

   Set the paper on the original table so that the darker density side comes on the left side. Then place 5 sheets of white paper on the color patch image (adjustment pattern).

If it is difficult to adjust the color balance adjustment (Manual) with SIM 46-21 satisfactorily level, do not register the service target gamma data with SIM 63-7.

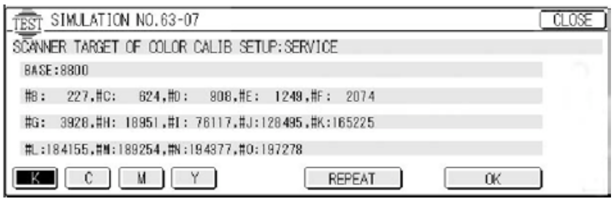
5) Press the [EXECUTE] key.

   The color patch image (adjustment pattern) is read.



SET THE CHART ON PLATEN AND TOUCH [EXECUTE].

6) Press the REPEAT key, set the second color patch image paper, and perform procedure 5) again.



```
BASE:8800
#B:   227,#C:   624,#D:   908,#E:  1249,#F:  2074
#G:  3928,#H: 18951,#I: 76117,#J:128495,#K:165225
#L:184155,#M:189254,#N:194377,#O:197278
```

The color balance (gamma) target setup level of each color can be checked with K/C/M/Y keys.

The setup level values must be in the ascending sequence of B – O. If there is no change or the sequence is reversed, it is judged as an abnormality.

In case of an abnormality, resolve the problem and check again.

7) Press the OK key.

   The color balance (gamma) corresponding to the color patch image (adjustment pattern) printed in the copy color balance adjustment (manual adjustment) (ADJ 11C) is set as the service target.

(Procedure to set the default (standard) color balance (gamma) as the service target)

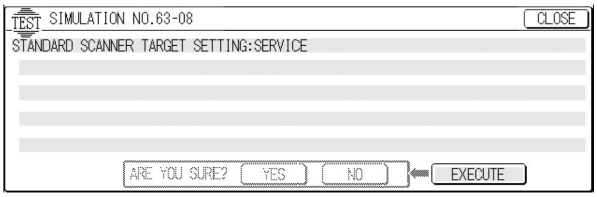
* This procedure is executed only when the service target is found abnormal when the service target gamma is selected with SIM46-24 and the automatic color balance adjustment is executed, and when the user color calibration is executed.

* When the ICU EEPROM data are destroyed by U2 trouble.

When SIM 63-8 is executed, the service target gamma data are changed to the default target gamma data determined by the machine design.

When the color balance adjustment (Auto) is executed with the service target gamma data set to the default target gamma, a virtually satisfactory result will be obtained.

1) Enter the SIM 63-8 mode.



ARE YOU SURE?

2) Press the [EXECUTE] key.

3) Press the YES key.

   The service target becomes the same as the default (standard) target.

ADJ 11D Copy density adjustment in low-density area (Normally unnecessary to adjust.)

NOTE for SIM 46-1 and 46-2:

The major purpose of these simulations is to delete background copy simply.

SIM 46-1 and 46-2 are used to adjust the copy density in the low-density area, and they do not affect the density in the high-density area.

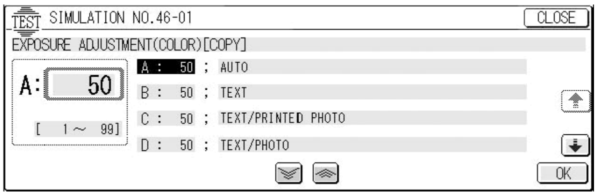
Note that the tone and the color phase may be changed greatly if the set value is changed greatly.

When an extreme background copy is produced, use ADJ 11C color balance adjustment (manual adjustment) (SIM 46-21) instead of this procedure.

The adjustment result of SIM 46-1 is reflected evenly to all the color copy modes.

The adjustment result of SIM 46-2 is reflected evenly to all the monochrome copy modes.

1) Enter the SIM 46-1 or 46-2 mode.



A: 50

[1 ~ 99]

A : 50 ; AUTO

B : 50 ; TEXT

C : 50 ; TEXT/PRINTED PHOTO

D : 50 ; TEXT/PHOTO

2) Select the copy mode to be adjusted with the scroll key.

3) Enter the adjustment value with the 10-key, and press the [OK] key.

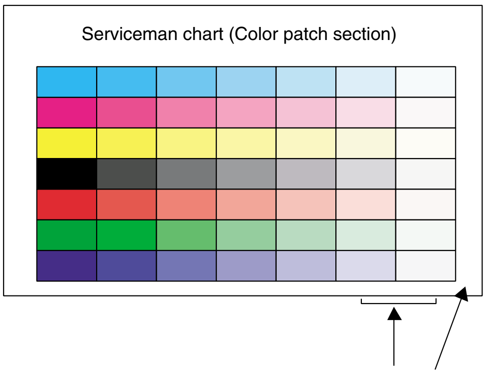
   To increase the density in the low-density area, set a greater adjustment value. To reduce the density, set a lower adjustment value. The adjustment in the low-density area can be adjusted individually for each copy mode.

   The greater the set value is, the greater the density in the low-density area is, and vice versa. (The density in the high-density area is not changed.)

4) Cancel the simulation mode, and make a copy in the normal mode to check the copy density in the white area and the low-density area by using the test chart (UKOG-0283FCZZ).

In this simulation mode, press CLOSE key to jump to the normal copy mode and make actual copies of the service chart and user documents. In this manner, the adjustment result can be checked.

The adjustment can be performed also by switching between the simulation mode and the normal copy mode alternately and checking the adjustment result with actual copies.



Check the copy density in the low-density area and the white area of the color patch section.

ADJ 11E Copy color balance density adjustment (each copy mode)

This adjustment must be performed in the following cases:

∗ When a U2 trouble occurs.

∗ When the MFP PWB is replaced.

∗ When the EEPROM of the MFP PWB is replaced.

Used to adjust the gamma and the density in each copy mode individually. The adjustment in each copy mode is not required normally, but is performed when the user requests it.

1) Enter either of SIM 46-10 to 46-16 modes.

   (Select the simulation according to the copy mode to be adjusted.)

Copy mode					Adjustment (Simulation)					
					Color balance/ density adjustment of each copy mode		Collective color balance/density adjustment of all copy modes		Low-density area color balance/ density adjustment	
					Main	Sub	Main	Sub	Main	Sub
Full color	AUTO		Auto (Auto document kind recognition, auto exposure)	Text	46	11	46	21/20/24	46	1
				Text/printed photo		12				
				Printed photo		12				
				Photograph		13				
				Text/Photograph		14				
	TEXT	NORMAL	Text	Normal		11				
		COLOR TONE ENHANCEMENT		Color emphasis						
		COPT TO COPY		Copy document		10				
	MAP	NORMAL	Map	Normal		11				
		COLOR TONE ENHANCEMENT		Color emphasis						
	PRINTED PHOTO	NORMAL	Printed photo	Normal		12				
		COLOR TONE ENHANCEMENT		Color emphasis						
		COPT TO COPY		Copy document		10				
	TEXT/PRINTED PHOTO	NORMAL	Text/printed photo	Normal		12				
		COLOR TONE ENHANCEMENT		Color emphasis						
		COPT TO COPY		Copy document		10				
	PHOTOGRAPH	NORMAL	Photograph	Normal		13				
		COLOR TONE ENHANCEMENT		Color emphasis						
	TEXT/PHOTO	NORMAL	Text/Photograph	Normal		14				
		COLOR TONE ENHANCEMENT		Color emphasis						
Single color (Affected by the adjustment result of full color mode)	TEXT	NORMAL	Text	Normal		25/(26)				
		COPT TO COPY		Copy document						
	MAP	NORMAL	Map	Normal						
	PRINTED PHOTO	NORMAL	Printed photo	Normal						
		COPT TO COPY		Copy document						
	TEXT/PRINTED PHOTO	NORMAL	Text/printed photo	Normal						
		COPT TO COPY		Copy document						
	PHOTOGRAPH	NORMAL	Photograph	Normal						
	TEXT/PHOTO	NORMAL	Text/Photograph	Normal						
Monochrome	AUTO1 (∗ 1)		Auto 1 (Japan)			15/(16)				2
	AUTO2 (∗ 1)		Auto 2 (Except Japan)							
	TEXT	NORMAL	Text	Normal						
		COPT TO COPY		Copy document						
	MAP		Map							
	PRINTED PHOTO	NORMAL	Printed photo	Normal						
		COPT TO COPY		Copy document						
	TEXT/PRINTED PHOTO	NORMAL	Text/printed photo	Normal						
		COPT TO COPY		Copy document						
	PHOTOGRAPH		Photograph							
	TEXT/PHOTO		Text/Photograph							

∗ The copy color balance and the density in the color enhancement mode are automatically determined by the adjustment result of the color normal mode. The adjustment unique to this mode cannot be made.

∗1: Select either one. The default setting differs depending on the destination.

2) Select the color to be adjusted with the color select key, and select the adjustment point with the scroll key.

3) Enter the adjustment value with the 10-key, and press the OK key.

   The adjustment value can be selected in the range of 245 to 755. When the automatic color balance and the density are adjusted with SIM 46-24, all the set values of this simulation are set to 500.

   To increase the density, increase the adjustment value. To decrease the density, decrease the adjustment value.

ADJ 11F CCD gamma adjustment (CCD calibration) (Copy document copy mode)

This adjustment is the CCD gamma adjustment (CCD calibration) for the copy document copy mode, and is different from the CCD gamma adjustment (CCD calibration) in the normal document copy mode (ADJ 11A). There are above two kinds of the CCD gamma adjustment (CCD calibration), and both adjustments are required.

This adjustment is required in the following cases:

- After execution of the CCD gamma adjustment (CCD calibration) (normal document copy mode) (ADJ11A) and when the copy color balance is customized with SIM46-21.

(1) Note before adjustment

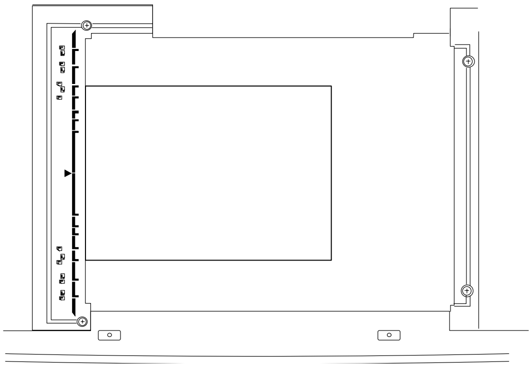
∗ Check that the table glass, No. 1/2/3 mirrors, and the lens surface are free from dirt and dust.
(If dirt or dust is found, clean with alcohol.)

∗ Check that the patches of BK1 and BK2 of the SIT chart (UKOG-0280 FCZZ are free from dirt or dust.
If dirt or dust is found, clean with alcohol.
If any damage is found, replace with a new one.

∗ Since this adjustment is based on the normal document copy mode CCD gamma adjustment (CCD calibration) (ADJ 11A), the said adjustment must have been completed before execution of this adjustment.
The copy color balance must also have been adjusted properly.

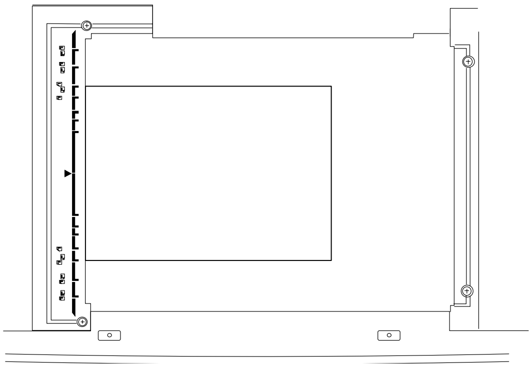
(2) Adjustment procedure

1) Place the SIT chart (UKOG-0280FCZZ) on the left edge of the document table, and fit the center of the SIT chart with the center of the glass holder.



Note: Check that the SIT chart (UKOG-0280FCZZ) is in close contact with the document table.

2) Close the document cover without shifting the SIT chart (UKOG-0280FCZZ).
3) Make a copy in the Manual Photo mode.
(Be sure to use the specified copy paper.)
4) Set the copy made in procedure 3) on the document table so that the center of the copy paper comes to the center of the left edge of the document table.



5) Enter the SIM 63-09 mode and press the [EXECUTE] key.

The automatic adjustment is performed. During the adjustment, the [EXECUTE] key is highlighted. When the adjustment is completed, the [EXECUTE] key returns to the normal display.

6) Cancel the simulation mode.

Note: The SIT chart (UKOG-0280FCZZ) is affected by lights (especially ultra-violet rays) and temperature and humidity. Store it in a clear file (nylon file) in a dark place.

ADJ 11G Image edge section gamma/density adjustment (Black text and black line reproduction adjustment) (Normally unnecessary to adjust.)

The gamma or density of black toner component images is changed to adjust the reproduction of the profile of the black character and line optionally. Especially the thickness of fine black character and line is changed.

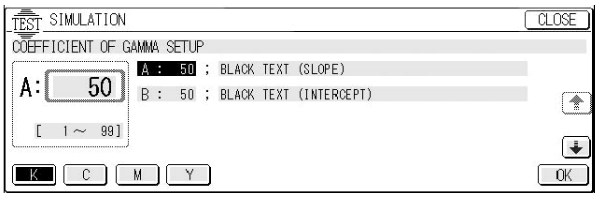
Since the black toner component image quantity differs depending on each copy mode, be careful to selection of the copy mode when checking the result of this adjustment. Check in the Text/Printed photo copy mode.

This adjustment is valid only in the Text mode, the Text/Printed photo mode, and the Text/Photograph mode.

When the adjustment value different from the default value is used, this adjustment must be performed in the following cases:

- When U2 trouble occurs.
- When the MFP PWB is replaced.
- When the EEPROM of the MFP PWB is replaced.

1) Enter the SIM 46-27 mode.



COEFFICIENT OF GAMMA SETUP

A: 50

[1～ 99]

A : 50 ; BLACK TEXT (SLOPE)

B : 50 ; BLACK TEXT (INTERCEPT)

2) Enter the adjustment value with the 10-key.

BLACK TEXT (SLOPE): Black image edge section gamma (tilt) adjustment (Black text and black line reproduction adjustment)

When the adjustment value is increased, the black toner component image contrast becomes greater, and vice versa.

BLACK TEXT (INTERCEPT): Black image edge section density (overall level) adjustment (Black txt and black line reproduction adjustment)

The greater the adjustment value is, the greater the density is, and vice versa.

Normally set to the default (50).

3) Press the [OK] key.

4) Cancel the simulation, and make a copy in the Text/Printed Photo mode to check the reproduction of fine black character and line.

   Use a document with black characters and lines on it for checking.

ADJ 11H Copy color balance adjustment (Single color Copy mode) (Normally unnecessary to adjust.)

This adjustment is used to adjust color balance and the density according to the user's demand.

The adjustment is made by setting the max. density level of Y, M and C in each color.

This adjustment is required in the following cases when the default was changed:

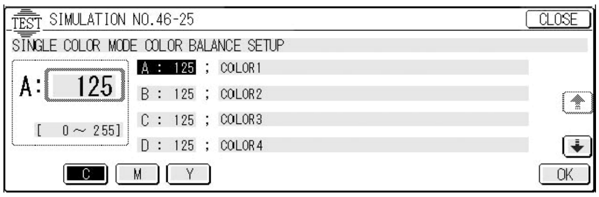
- When a consumable part (developer, photoconductor drum, transfer belt) is replaced.
- When the CCD unit is replaced.
- When the scanner (reading) section is cleaned.
- When U2 trouble occurs.
- When the MFP PWB is replaced.
- When the EEPROM of the MFP PWB is replaced.

a. Note for the adjustment

∗ This adjustment is not required in the normal state, but executed only when the user requests for.

b. Adjustment procedure

1) Enter the SIM 46-25 mode.



A: 125

[0 ~ 255]

A : 125 ; COLOR1

B : 125 ; COLOR2

C : 125 ; COLOR3

D : 125 ; COLOR4

2) Select the color to be adjusted with the scroll key.

3) Select the color with the color key.

4) Enter the adjustment value of each toner color with the 10-key. (Default)

Display		Content	Min value	Max value	Default value		
					C	M	Y
A	COLOR1	RED	0	255	0	255	255
B	COLOR2	GREEN	0	255	255	0	255
C	COLOR3	BLUE	0	255	255	255	0
D	COLOR4	YELLOW	0	255	255	0	0
E	COLOR5	MAGENTA	0	255	0	255	0
F	COLOR6	CYAN	0	255	0	0	255

5) Cancel the simulation mode and make a copy in the single color copy mode to check.

ADJ 11I Auto color balance adjustment by user (Copy color balance auto adjustment enable setting and adjustment)

a. Outline

The user can perform the copy color balance and auto density adjustment in the user program mode.

SIIM 26-53 is used to Enable or Disable this operation.

Note: This setup is performed only when the user understands the copy color balance and the auto density adjustment and is capable of performing the operation.

Full explanations on the operating procedure, notes, and operations must be given to the user.

This setting is required in the following cases:

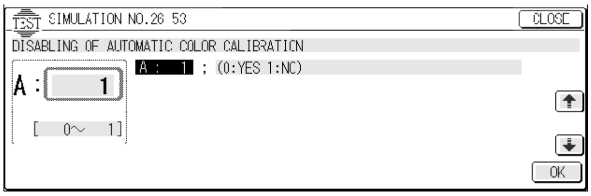
∗ When a U2 trouble occurs.

∗ When the PCU main PWB is replaced.

∗ When the EEPROM on the PCU main PWB is replaced.

b. Setup procedure

1) Enter the SIM 26-53 mode.



A : 1

[0~ 1]

A : 1 ; (0:YES 1:NC)

2) Select Enable/Disable with the 10-key.

   Disabling = 0: YES
   Enabling = 1: NO

3) Press the OK key.

   When "0: YES" (Disabling) is selected, the user auto color calibration (copy color balance, auto density adjustment) menu is not displayed in the user program mode.

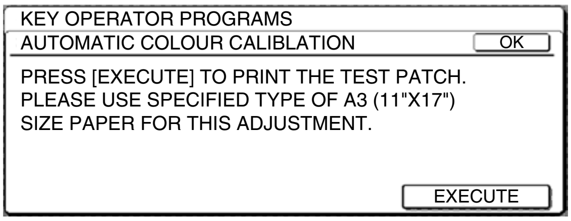
(Auto color calibration by the user (Auto color balance adjustment))

Note: This adjustment is based on the service target color balance set with SIM 63-7 or 63-8. If, therefore, the above simulation is not completed normally, this adjustment will not be completed normally.

1) Enter the user program mode.

2) Enter the copy mode.

3) Press the auto color calibration key.

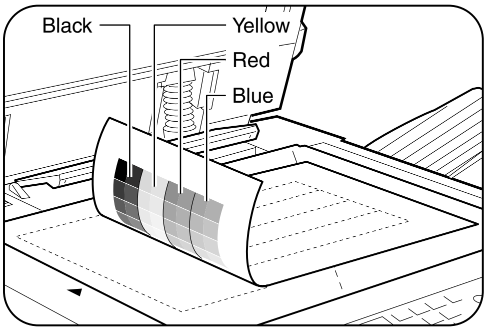


PRESS [EXECUTE] TO PRINT THE TEST PATCH.
PLEASE USE SPECIFIED TYPE OF A3 (11"X17")
SIZE PAPER FOR THIS ADJUSTMENT.

4) Press the [EXECUTE] key.

The color patch image (adjustment pattern) is printed.

5) Set the color patch image (adjustment pattern) printed in procedure 4) on the original table so that the darker density side comes to the left side. Place 5 sheets of white paper on the color patch image (adjustment pattern) paper.



6) Press the [EXECUTE] key. The copy color balance adjustment (step 2) is automatically performed. After completion of the adjustment, the display returns to the original menu.

ADJ 11J Background process conditions setting in the color auto copy mode, image auto recognition conditions setting, text-on-dot recognition conditions setting

This adjustment is required in the following cases when the default was changed:

- When U2 trouble occurs.
- When the MFP PWB is replaced.
- When the EEPROM of the MFP PWB is replaced.
- When a request is made by the user.

(Foundation removal operation condition setting)

This adjustment is valid only in the color auto copy mode (Text, Text/Printed photo, Text/Photograph, Printed photo, Photograph).

1) Enter the SIM 46-33 mode.
2) Select the COLOR AE mode.
3) Select the setting mode with the scroll key.
   A: Foundation process judgment level setting (Judged by the ratio of printed photo in the document (ratio of dotted area).)
   B: Foundation process judgment level setting (Judged by the document foundation color phase.)
   C: Foundation removal quantity setting
4) Enter the set value with the 10-key and press the OK key to set the entered value.

(Relationship between the set value and foundation removal operation)

Display	Set value (Display)		Ratio of printed photo in the document (Ratio of dot areas)			
			None or little	Little – Medium	Medium – Much	Very much
A	0	LOW	NO	NO	NO	NO
	1	RATHER LOW	YES	NO	NO	NO
	2 (Default)	MIDDLE	YES	YES	NO	NO
	3	RATHER HIGHT	YES	YES	YES	NO
	4	HIGHT	YES	YES	YES	YES

Display	Set value (Display)		Color phase in the document			
			None or Weak	Weak – Medium	Medium – Strong	Very strong
B	0	LOW	NO	NO	NO	NO
	1	RATHER LOW	YES	NO	NO	NO
	2 (Default)	MIDDLE	YES	YES	NO	NO
	3	RATHER HIGHT	YES	YES	YES	NO
	4	HIGHT	YES	YES	YES	YES

YES: Foundation removal is performed.
NO: Foundation removal is not performed.

(Foundation removal quantity setting)

Display		Set value (Display)	Foundation removal quantity
C	−4	0	Little
	−3	1	↑
	−2	2	
	−1	3	
	0	4 (Default)	
	+1	5	
	+2	6	
	+3	7	↓
	+4	8	Much

Whether the foundation removal is performed or not is determined by the AND condition of the set items A and B.

(Image auto recognition condition setting)

Used to set whether the text area is regarded important or not in judgment of printed photo and the text/printed photo or photograph and text/photograph.

1) Select the ORG RECOG mode.
2) Enter the set value with the 10-key and press the [OK] key to set the entered value.

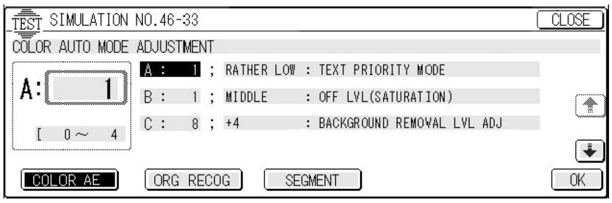
Display	Set value			Content
A	TEXT PRIORITY MODE	0	DISABLE	There must be considerable level of text area to judge as text/printed photo or text/photograph.
		1 (Default)	ENABLE	Only a light level of text area is enough for judging as text/printed photo or text/photograph.

(Text-on-dots recognition condition setting)

Used to set whether the text on dots is recognized as text or not.

1) Select the SEG mode.
2) Select the set mode A with the scroll key.
3) Enter the set value with the 10-key and press the [OK] key to set the entered value.

Display	Set value		Content
A	0 (Default)	OFF	Text on dots is not recognized as text.
	1	ENABLE	Text on dots is recognized as text. (Priority is placed on the reproduction of text.)



A : 1 ; RATHER LOW : TEXT PRIORITY MODE
B : 1 ; MIDDLE : OFF LVL(SATURATION)
C : 8 ; +4 : BACKGROUND REMOVAL LVL ADJ

(Setting the reproduction (text recognition level) of text on dots of a document printed by the printer)

This function is effective especially when copying a document that is printed by an inkjet printer or a laser printer in the automatic color copy mode.

Some inkjet printers and laser printers express gradations with the thickness of lines. In that case, line images may be erroneously recognized as text images.

When recognized as text images, the area is printed with sharp edges and high contrast, losing gradations. In addition, dirt may appear on the print.

To cope with this problem, the text (edge) recognition level can be adjusted.

1) Select the SEG mode.
2) Select the setting mode B with the scroll key,
3) Enter the set value with the 10-key and press the [OK] key to set the entered value.

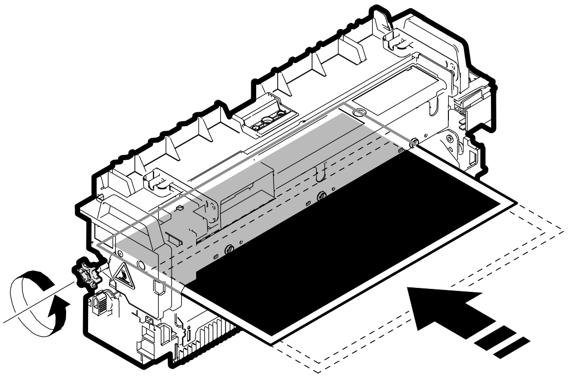
Display	Set value		Content
B	0 (Default)	OFF	Normal mode (Normal text recognition level) Depending on the type of documents, text images may be with sharp edges and high contrast.
	1	ON	Mode for documents printed by a printer: Documents are copied in a similar picture quality. (Low text recognition level)

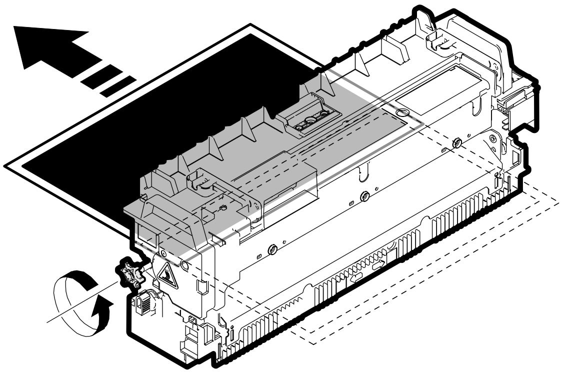
ADJ 12 Fusing pressure adjustment

This adjustment must be performed in the following cases:

- When the fusing section is disassembled.
- When a fusing trouble occurs.
- When wrinkles are generated on paper in the fusing section.

1) Select A4 (8.5 x 11) paper.
2) With the document cover open, press the start key of monochrome copy.
3) A copy of black background is made.
4) Open the left door.
5) Insert paper into the pre-transfer paper guide, and turn the fusing roller knob.

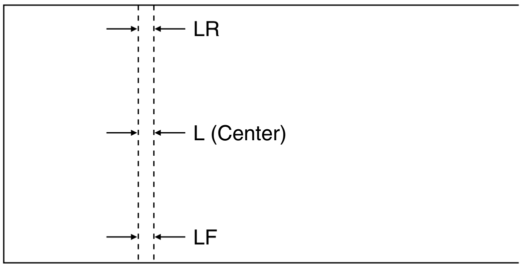




6) With the paper squeezed in the pre-transfer paper guide, wait for about 10sec.
7) Turn the fusing roller knob to remove the paper from the fusing section.
8) Measure the dimension (L) of the center section of the glittering line made by the fusing roller. Check that the dimension is in the specified range.

   Check that the pressure balance between the front and the rear frame sides is proper.

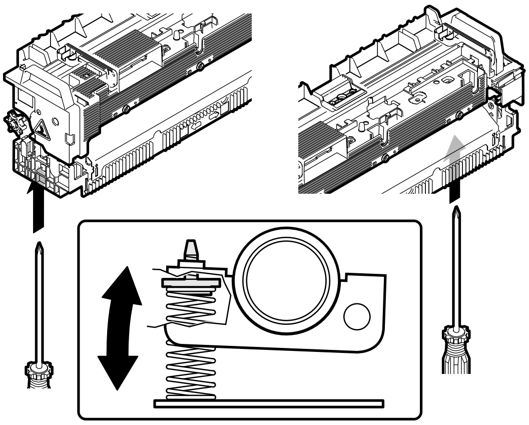
Value L = About 5.5mm



LR = LF

If the above conditions are not satisfied, perform the following procedure.

9) Turn the pressure adjustment screw on the front and the rear frame sides of the fusing unit to adjust the fusing pressure.



Repeat procedures 2) to 9) until the condition of procedure 8) is satisfied.

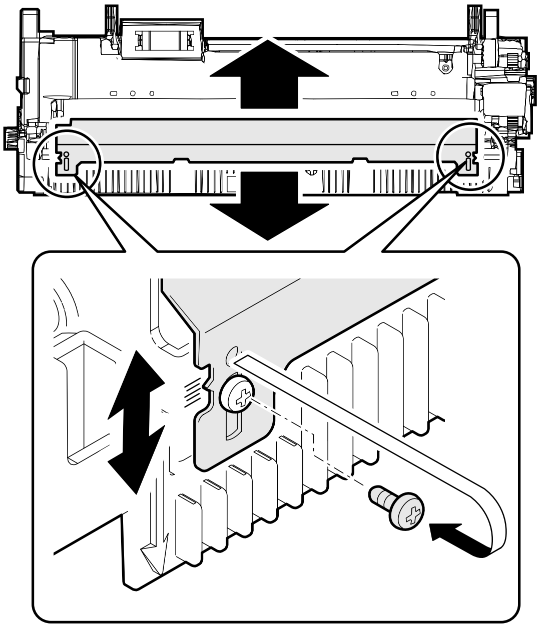
ADJ 13 Fusing paper guide position adjustment

This adjustment must be performed in the following cases:

- When the fusing section is disassembled.
- When a paper jam occurs in the fusing section.
- When wrinkles are generated on paper in the fusing section.
- When image deflection or unclear image is produced in the paper rear edge area.

The standard fixing position is at the center. However, change the position depending on the situations.

- When wrinkles are made on paper, shift the position upward.
- When image deflection or unclear image is produced in the paper rear edge area, shift the position downward.



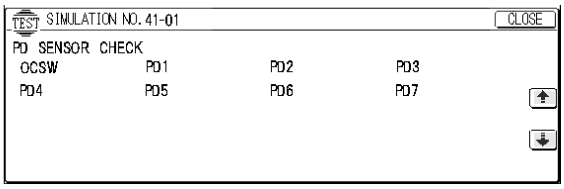
ADJ 14 Document size sensor adjustment

This adjustment must be performed in the following cases:

- When the original size sensor section is disassembled.
- When the original size sensor section is replaced.
- When a U2 trouble occurs.
- When the PCU main PWB is replaced.
- When the EEPROM of the PCU main PWB is replaced.

ADJ 14A Original size sensor detection point adjustment

1) Enter the SIM 41-1 mode.

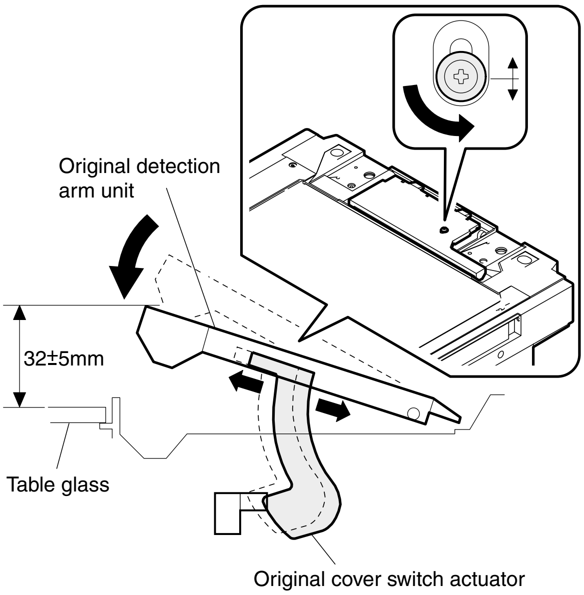


TEST SIMULATION NO.41-01

PD SENSOR CHECK

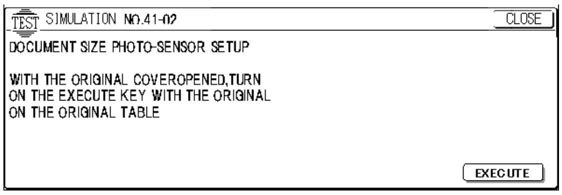
```
OCSW        PD1         PD2         PD3
PD4         PD5         PD6         PD7
```

Gradually tilt the original detection arm unit. Loosen the original cover switch actuator adjustment screw so that the highlight display of OCSW is turned to the normal display when the height of the arm unit top from the table glass is 32 ± 0.5mm. Slide the actuator to adjust. (If the ON timing of the original cover switch is shifted, the original detection function may malfunction.)



ADJ 14B Original size sensor sensitivity adjustment

1) Enter the SIM 41-2 mode.



TEST SIMULATION NO.41-02

DOCUMENT SIZE PHOTO-SENSOR SETUP

WITH THE ORIGINAL COVEROPENED,TURN
ON THE EXECUTE KEY WITH THE ORIGINAL
ON THE ORIGINAL TABLE

2) Make the sensor adjustment without an original.

   With the original cover open and without an original on the original table, press the [EXECUTE] key.

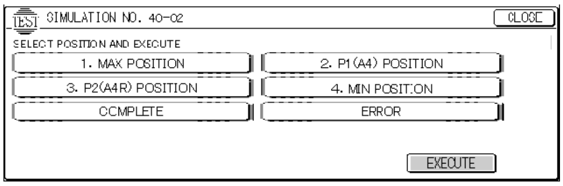
3) Place A3 (11 x 17) document on the document table and press the [EXECUTE] key.

ADJ 15 Manual paper feed tray paper size sensor adjustment

This adjustment must be performed in the following cases:

- When the manual paper feed tray section is disassembled.
- When the manual paper feed tray unit is replaced.
- When a U2 trouble occurs.
- When the PCU PWB is replaced.
- When the EEPROM of the PCU PWB is replaced.

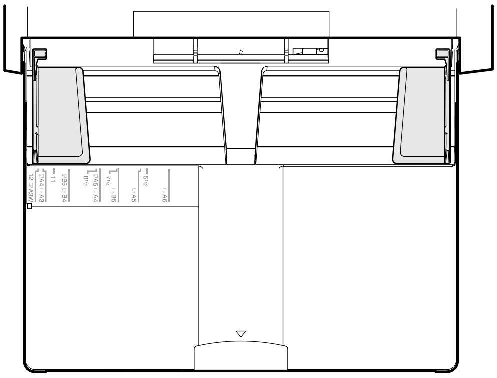
1) Enter the SIM 40-2 mode.



TEST SIMULATION NO. 40-02

SELECT POSITION AND EXECUTE

2) Set the manual paper feed guide to the maximum position.



3) Press the [EXECUTE] key.

   The [EXECUTE] key is highlighted. Then it returns to the normal display. The manual paper feed guide maximum width position detection level is recognized.

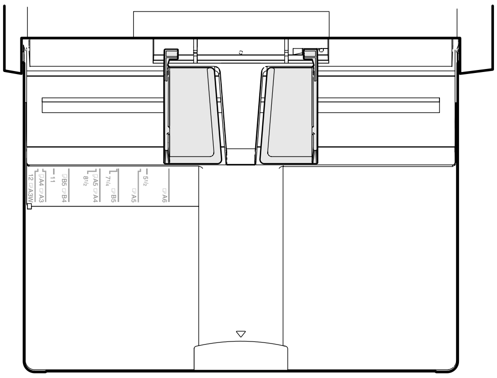
4) Set the manual paper feed guide to A4 (11 x 8.5") size width.
5) Press the [EXECUTE] key.

   The [EXECUTE] key is highlighted. Then it returns to the normal display. The manual paper feed guide A4 (11 x 8.5") width position detection level is recognized.

6) Set the manual paper feed guide to A4R (11 x 8.5"R) size width.
7) Press the [EXECUTE] key.

   The [EXECUTE] key is highlighted. Then it returns to the normal display. The manual paper feed guide A4R (11 x 8.5" R) width position detection level is recognized.

8) Set the manual paper feed guide to the minimum position.



9) Press the [EXECUTE] key.

The [EXECUTE] key is highlighted. Then it returns to the normal display. The manual paper feed guide minimum width position detection level is recognized.

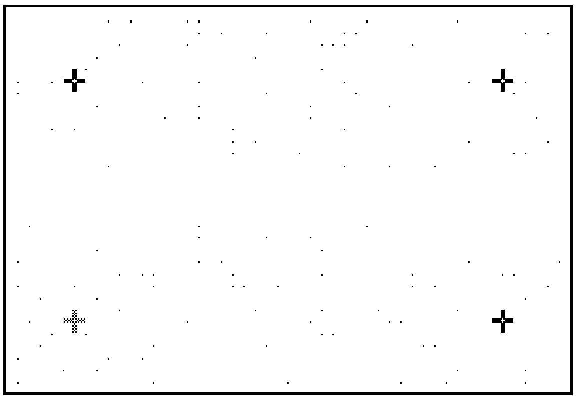
If the above procedure is not completed normally, "ERROR" is highlighted. If the above procedure is completed normally, the above data are stored and "COMPLETE" is highlighted.

ADJ 16 Touch panel coordinates setting

This adjustment must be performed in the following cases:

- When the operation panel is replaced.
- When a U2 trouble occurs.
- When the MFP PWB is replaced.
- When the EEPROM of the MFP PWB is replaced.

1) Enter the SIM 65-1 mode.



2) Touch the four cross marks on the display.

When the cross marks are pressed, the buzzer sounds and they are changed into gray display. When the touch panel adjustment is completed by pressing all the four marks, the display returns to the simulation sub code number entry menu.

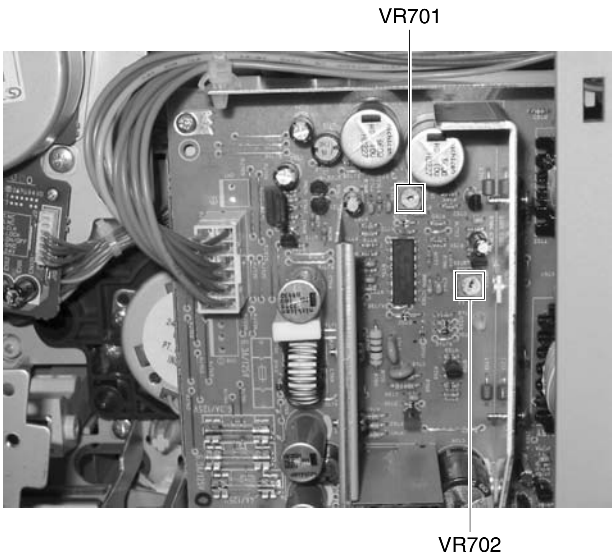
If there is any abnormality, the first display is shown again.

∗ When touching the crosses, never use a needle or a pin with a sharp point.

ADJ 17 Power voltage adjustment

This adjustment must be performed in the following cases:

- When a part in the DC power unit is replaced.



ADJ 17A 3.4 V power voltage adjustment

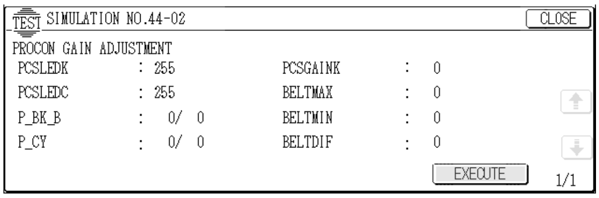
1) Put the multi-meter on the 3.4V line of the DC main PWB and GND.
2) Turn VR701 on the DC main PWB to adjust so that the voltage is 3.4V.

ADJ 17B 5.0 V power voltage adjustment

1) Put the multi-meter on the 5.0V line of the DC main PWB and GND.
2) Turn VR702 on the DC main PWB to adjust so that the voltage is 5.0V.

ADJ 18 FAX/scanner mode image loss adjustment

1) Enter the SIM 40-2 mode.



SIMULATION NO.44-02

PROCON GAIN ADJUSTMENT

PCSLEDK : 255
PCSLEDC : 255
P_BK_B : 0/ 0
P_CY : 0/ 0
PCSGAINK : 0
BELTMAX : 0
BELTMIN : 0
BELTDIF : 0

2) Select the adjustment mode with the scroll key.

Content	Adjustment range	Default value
FAX mode image loss	0 to 99	20
Scanner modes (all except for the copy mode) image loss	0 to 99	40

3) Enter the adjustment value at the selected point with the 10-key and press the OK key to set the entered adjustment value.

When the adjustment value is changed, the image losses at the four corners are changed uniformly.

[9] SIMULATION

(Diagnostics, setup, adjustment value input, data display)

1. Outline and purpose

The simulation has the following functions to grasp the machine operating status, identify the trouble position and causes in an earlier stage, and make various setups and adjustments speedily for improving the serviceability of the machine.

1) Various adjustments
2) Setup of specifications and functions
3) Canceling troubles
4) Operation check
5) Various counters check, setup, and clear
6) Machine operating status (operation history) data check, clear
7) Transfer of various data (adjustments, setup, operations, counters)

The operating procedures and the displays differ depending on the form of the operation panel of the machine.

2. Code-type simulation

A. Operating procedures and operations

∗ Entering the simulation mode

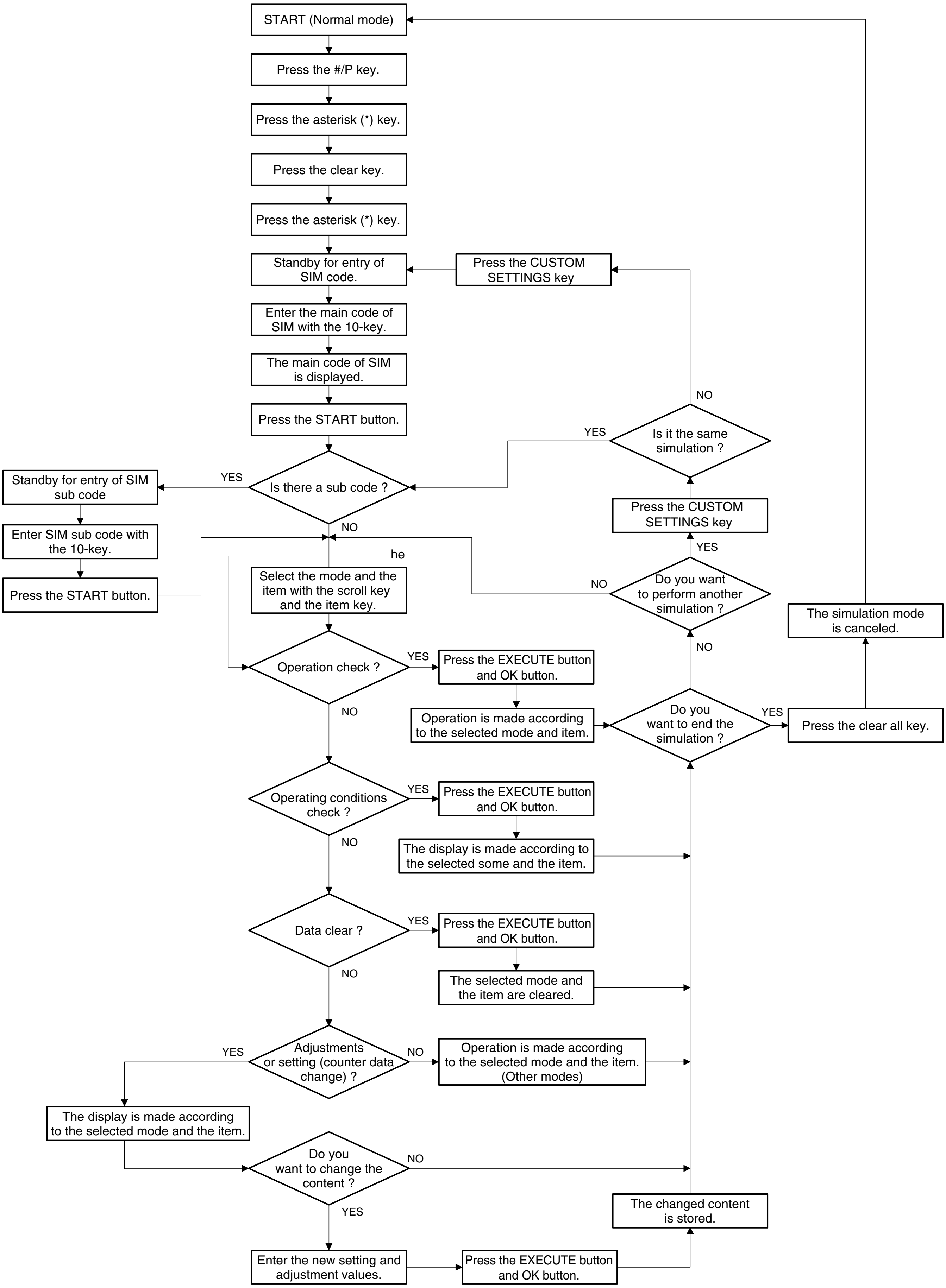
1) #/P key (program) ON → Asterisk (*) key ON → CLEAR key ON → Asterisk (*) key ON → Ready for input of a main code of simulation
2) Entering a main code with the 10-key → START key ON
3) Entering a sub code with the 10-key → START key ON
4) Select an item with the scroll key and the item key.
5) The machine enters the mode corresponding to the selected item.

   Press START key or EXECUTE key to start the simulation operation.

   To cancel the current simulation mode or to change the main code and the sub code, press the user setup key.

∗ Canceling the simulation mode to return to the normal mode

1) Press CLEAR ALL key.


START (Normal mode)
Press the #/P key.
Press the asterisk (*) key.
Press the clear key.
Press the asterisk (*) key.
Standby for entry of SIM code.
Press the CUSTOM SETTINGS key
Enter the main code of SIM with the 10-key.
The main code of SIM is displayed.
Press the START button.
NO
YES
Is it the same simulation ?
Standby for entry of SIM sub code
YES
Is there a sub code ?
Press the CUSTOM SETTINGS key
Enter SIM sub code with the 10-key.
NO
YES
he
Press the START button.
Select the mode and the item with the scroll key and the item key.
NO
Do you want to perform another simulation ?
The simulation mode is canceled.
Operation check ?
YES
Press the EXECUTE button and OK button.
NO
NO
Operation is made according to the selected mode and item.
Do you want to end the simulation ?
YES
Press the clear all key.
Operating conditions check ?
YES
Press the EXECUTE button and OK button.
NO
The display is made according to the selected some and the item.
Data clear ?
YES
Press the EXECUTE button and OK button.
NO
The selected mode and the item are cleared.
YES
Adjustments or setting (counter data change) ?
NO
Operation is made according to the selected mode and the item. (Other modes)
The display is made according to the selected mode and the item.
Do you want to change the content ?
NO
YES
The changed content is stored.
Enter the new setting and adjustment values.
Press the EXECUTE button and OK button.

B. Simulation list

(1) Main/ Sub

Code		Function (Purpose)	Purpose	Section		Item	
Main	Sub						
1	1	Used to check the operations of the scanner unit and its control circuit.	Operation test/check	Scanner (Image scanning)		Operation	
	2	Used to check the sensors and detectors in the scanner section and the related circuits.	Operation test/check	Scanner (Image scanning)		Operation	
	5	Used to check the scanner (scanning) unit and its control circuit.	Operation test/check	Scanner (Image scanning)		Operation	
2	1	Used to check the operations of the RADF unit and the control circuit. (The document feed operation is repeatedly performed.)	Operation test/check	RADF		Operation	
	2	Used to check the operations of the sensors and detectors in the RADF unit and the related circuits.	Operation test/check	RADF		Operation	
	3	Used to check the operations of the loads in the RADF unit and the control circuits.	Operation test/check	RADF		Operation	
3	2	Used to check the operations of the sensors and detectors in the finisher and the related circuits.	Operation test/check	Finisher		Operation	
	3	Used to check the loads in the finisher and the control circuit.	Operation test/check	Finisher		Operation	
	10	Used to adjust the sections in the finisher.	Operation test/check	Finisher		Operation	
4	2	Used to check the operations of the desk/large capacity tray sensors and detectors and the related circuits.	Operation test/check	Paper feed		Operation	
	3	Used to check the operations of the desk/large capacity tray loads and the control circuit.	Operation test/check	Paper feed		Operation	
	5	Used to check the operations of the clutch TRC and the monitor.	Operation test/check	Paper feed		Operation	
5	1	Used to check the operations of the display lamp (LED)/LCD on the operation panel and the control circuits.	Operation test/check	Operation (Display, procedure)		Operation	
	2	Used to check the operations of the heater lamp and its control circuit.	Operation test/check	Fusing		Operation	
	3	Used to check the operations of the scanner lamp and its control circuit.	Operation test/check	Scanner (reading)		Operation	
	4	Used to check the operations of the discharge lamp and its control circuit.	Operation test/check	Process (Photoconductor, developing, transfer, cleaning)	Others	Operation	
6	1	Used to check the operations of the loads (clutches and solenoids) in the paper transport system, transfer, and fusing, and the control circuit.	Operation test/check	Paper transport (paper exit, switchback, transport), transfer, fusing		Operation	
	2	Used to check the operations of the fan motors and the control circuits.	Operation test/check	Others		Operation	
7	1	Used to set the aging conditions.	Setting/Operation test/check			Operation	
	6	Used to set the cycle of intermittent aging.	Setting/Operation test/check			Operation	
	8	Used to set Yes/No of warm-up time display.	Setting/Operation test/check			Operation	

Code		Function (Purpose)	Purpose	Section		Item	
Main	Sub						
7	9	Used to check the image quality and operations of each color.	Operation test/check	Others		Picture quality	
8	1	Used to check and adjust the operations of the developing bias voltage of each color and the control circuit.	Adjustment/ Operation test/check	Process (Photoconductor, developing, transfer, cleaning)			
	2	Used to check and adjust the operation of each print mode main charger grid voltage and the control circuit.	Adjustment/ Operation test/check	Process (Photoconductor, developing, transfer, cleaning)			
	6	Used to check and adjust the operation of the transfer charger current and the control circuit.	Adjustment/ Operation test/check	Process (Photoconductor, developing, transfer, cleaning)		Transfer	
9	2	Used to check the operation of the sensors and detectors in the inverter/duplex section and the control circuit.	Operation test/check	Inverter/Duplex		Operation	
	3	Used to check the operations of the loads (motor, clutch, solenoid) in the inverter/duplex section and the control circuits.	Operation test/check	Inverter/Duplex		Operation	
14	0	Used to cancel self diag troubles H3, H4, and H5. Inhibition of the color copy mode operation is canceled.	Clear/cancel (Trouble etc.)			Trouble	Error
15	0	Self diag U6-09 (large capacity paper feed tray) trouble cancel	Clear/cancel (Trouble etc.)	Paper feed		Trouble	
16	0	Used to cancel self diag trouble U2.	Clear/cancel (Trouble etc.)			Trouble	Error
17	0	Used to cancel self diag troubles PF (copy inhibition command from the host computer).	Clear/cancel (Trouble etc.)	Communication (RIC/ MODEM)		Trouble	Error
21	1	Used to set the maintenance cycle.	Setting			Specifications	Counter
22	1	Used to check the print count value in each section and each operation mode. (Used to check the maintenance timing.)	Adjustment/Setting/ Operation data output, check (display, print)			Counter	
	2	Used to check the total misfeed count and the total trouble count. (If the misfeed count is considerably great, it may be judged as necessary to repair. By dividing this count by the total count, the misfeed rate can be obtained.)	Adjustment/Setting/ Operation data output, check (display, print)			Trouble	
	3	Used to check misfeed positions and the misfeed count of each position. (If the misfeed count is considerably great, it may be judged as necessary to repair.) (Machine section only)	Adjustment/Setting/ Operation data output, check (display, print)			Trouble	Misfeed
	4	Used to check the total trouble (self diag) history.	Adjustment/Setting/ Operation data output, check (display, print)			Trouble	
	5	Used to check the ROM version of each unit (section).	Others			Software	
	6	Used to print the setting and adjustment data list.	Adjustment/Setting/ Operation data output, check (display, print)			Data	Setting/ Adjustment data
	7	Used to display the key operator code. (Used when the customer forgets the key operator code.)	User data output/ Check (Display/ Print)			Data	User data

Code		Function (Purpose)	Purpose	Section		Item	
Main	Sub						
22	8	Used to check the number of uses of the staple, and the RADF.	Adjustment/Setting/ Operation data output, check (display, print)			Counter	
	9	Used to check the number of uses (print quantity) of each paper feed section.	Adjustment/Setting/ Operation data output, check (display, print)	Paper feed		Counter	
	10	Used to check the system configuration (option, internal hardware).	Adjustment/Setting/ Operation data output, check (display, print)			Specifications	Option
	12	Used to check the misfeed positions and the number (history) of misfeed at each position. (If the misfeed count is considerably great, it may be judged as necessary to repair.)	Adjustment/Setting/ Operation data output, check (display, print)	RADF		Trouble	Misfeed
	13	Used to check the process cartridge counter. (If the count number is considerably great, it may be judged as necessary for repair.)	Adjustment/Setting/ Operation data output, check (display, print)	Process section		Counter	
	19	Used to check the counters related to the network scanner.	Adjustment/Setting/ Operation data output, check (display, print)	Network scanner		Counter	
24	1	Used to clear the misfeed counter, the misfeed history, the trouble counter, and the trouble history. (After completion of maintenance, the counters are cleared.)	Data clear	Memory		Counter	
	2	Used to clear the data of the number of uses (print quantity) of each paper feed section.	Data clear	Paper feed		Counter	Paper feed unit
	3	Used to clear the use number data of the staple, the RADF, and the scanner.	Data clear	Transport/Finisher		Counter	
	4	Used to reset the maintenance counter.	Data clear			Counter	Maintenance
	6	Used to clear the counters.	Data clear			Counter	
	7	Used to clear the OPC drum (membrane decrease) correction counter. (This simulation is performed with the OPC drum is replaced.)	Data clear	Process (Photoconductor, developing, transfer, cleaning)	Photoconductor	Counter	Photoconductor
	8	Used to clear the waste toner counter in the transfer section.	Data clear	Process (Photoconductor, developing, transfer, cleaning)	Transfer	Counter	
	9	Used to clear the printer mode counter and the self-print mode print counter. (After completion of maintenance, the counters are cleared.)	Data clear	Printer		Counter	Printer
	15	Used to clear the network scanner counter.	Data clear	Scanner section		Counter	
25	1	Used to check the operation of the process section (excluding the image process section) and the toner remaining quantity sensor. (The toner remaining quantity sensor output can be monitored.)	Operation test/check	Process (Photoconductor, developing, transfer, cleaning)		Operation	

Code		Function (Purpose)	Purpose	Section		Item	
Main	Sub						
26	2	1. Used to set the paper size of the large capacity tray. (When the paper size is changed, the software setup must be changed accordingly with this simulation.) 2. Used to detect 8.5 " x 13" (INCH Series) paper or documents and to set the display mode. (All paper feed modes) 3. Used to set the display form of the paper kind in the manual paper feed mode.	Setting	Paper feed		Specifications	
	3	Used to set the auditor specification mode. Setting must be made according to the use conditions of the auditor.	Setting	Auditor		Specifications	
	5	Used to set the count mode of the total counter and the maintenance counter.	Setting			Specifications	Counter
	6	Used to set the destination specifications (paper, fixed copy magnification ratios, image (process) correction, machine operation in case of an error, etc.).	Setting			Specifications	Destination
	10	Used to set the trial mode of the network scanner.	Setting	Scanner		Specifications	
	18	Used to set YES/NO of toner save operation. (This simulation is Enable only for Japan and UK versions. It depends on SIM 26-6 (Destination) setting. For the other destinations, the same setting can be made by the user program P22. (Effective only in the monochrome copy mode)	Setting			Specifications	Operation mode (Common)
	35	Used to set whether the trouble history display by SIM 22-4 is displayed as one trouble or as the accumulated number of continuous troubles when two or more troubles of same kind occur continuously.	Setting			Specifications	
	38	Used to set "Continue/ Discontinue" of printing when toner life is reached.	Setting			Specifications	
	41	Used to set Enable/Disable of AMS operation in the center-binding mode.	Setting			Specifications	
	52	Used to set YES/NO of count up of non-copy paper (cover or insertion paper).	Setting			Specifications	Operation mode
	53	Used by the user to set Enable/ Disable auto color calibration (auto adjustment of color balance and density)	Setting			Specifications	Operation mode
	57	Used to set the model name for use as the status information.	Setting			Specifications	
	65	Used to set the finisher alarm mode.	Setting			Specifications	

Code		Function (Purpose)	Purpose	Section		Item	
Main	Sub						
27	1	Used to set the specifications for operations in case of communication trouble between the host computer and MODEM (machine side). (When communication trouble occurs between the host computer MODEM and the machine, the self diag display (U7-00) is printed and setting for inhibition of print or not is made.)	Operation test/check	Communication (RIC/ MODEM)		Specifications	Operation mode (Common)
	5	Used to enter the machine tag No. (This function allows to check the tag No. of the machine with the host computer.)	Setting	Communication (RIC/ MODEM)		Data	User data
	6	Used to set ON/OFF of service call sending to the service center by use of RIC when trouble occurred in the machine. (The service call is not sent automatically, but sent manually.)	Setting	Communication (RIC/ MODEM)		Specifications	Others
30	1	Used to check the operation of sensors and detectors in the paper feed, paper transport, paper exit sections and the related circuits.	Operation test/check			Operation	
	2	Used to check the operation of sensors and detectors in the paper feed section and the related circuits. (The operation of the paper feed sensors and detectors can be monitored with the LCD display.)	Operation test/check	Paper feed		Operation	
33	1	Used to check the operation of the card reader and the sensors and the related circuits. (The card reader sensor operation can be monitored with the LCD display.)	Operation test/check	Others		Operation	
40	1	Used to check the operation of the manual feed tray paper size detector and the related circuit. (The operation of the manual feed tray paper size detector can be monitored with the LCD display.)	Operation test/check	Paper feed		Operation	
	2	Used to adjust the manual feed tray paper width detector detection level.	Adjustment	Paper feed		Operation	
	7	Used to enter the adjustment value of the manual paper feed tray paper width detector detection level. (Setting)	Setting	Paper feed		Specifications	
41	1	Used to check the operation of the document size sensor and the related circuit. (The operation of the document size sensor can be monitored with the LCD display.)	Operation test/check	Others		Operation	
	2	Used to adjust the document size sensor detection level.	Adjustment	Others		Operation	

Code		Function (Purpose)	Purpose	Section		Item	
Main	Sub						
41	3	Used to check the operation of the document size sensor and the related circuit. (The document size sensor output level can be monitored with the LCD display.)	Operation test/check	Others		Operation	
43	1	Used to set the fusing temperature in each operation mode.	Setting	Fixing (Fusing)		Operation	
44	1	Used to set enable/disable of correction operations in the image forming (process) section.	Setting	Process (Photoconductor, developing, transfer, cleaning)		Operation	
	2	Black image density sensor adjustment	Adjustment			Operation	
	4	Image forming section correction, image density sensor adjustment conditions setup	Setting	Process (Photoconductor, development, transfer)		Picture quality	
	6	Used to forcibly execute the image forming section correction (high density process correction) (process correction).	Operation test/check	Process (Photoconductor, developing, transfer, cleaning)		Operation	
	9	Used to check the data related to the image forming section correction (the corrected main charger grid voltage in each print mode, the developing bias voltage, etc.). (Used to check that correction is performed normally or not.)	Adjustment/Setting/ Operation data output, check (display, print)	Process (Photoconductor, developing, transfer, cleaning)		Data	Operation data (Machine conditions)
	12	Used to check the sampling toner image patch density data in the image forming section correction (high-density correction) (process correction). This simulation allows to check if the correction operation is performed normally.)	Adjustment/Setting/ Operation data output, check (display, print)	Process (Photoconductor, developing, transfer, cleaning)		Data	Operation data (Machine conditions)
	13	Color image density sensor adjustment (Adjustment by the adjustment jig)	Adjustment	Process (Transfer)			
	14	Used to monitor the output level of the fusing temperature sensor, the machine temperature sensor, and the humidity sensor.	Adjustment/Setting/ Operation data output, check (display, print)	Others			
	21	Used to store color balance adjustment data. (Half tone image correction initial setting) (After execution of color balance adjustment with SIM 46-21, this simulation must be executed.)	Setting			Picture quality	
	22	Used to check each color toner patch image density UITU in half tone image forming section correction (process correction). (This simulation allows to check if correction operation is performed normally.)	Adjustment/Setting/ Operation data output, check (display, print)	Process (Photoconductor, developing, transfer, cleaning)		Data	Operation data (Machine conditions)

Code		Function (Purpose)	Purpose	Section		Item	
Main	Sub						
44	24	Used to check the half tone correction result. (This simulation allows to check if correction is executed properly or not.)	Adjustment/Setting/ Operation data output, check (display, print)	Process (Photoconductor, developing, transfer, cleaning)		Data	Operation data (Machine conditions)
	25	Setting the half tone correction conditions.	Adjustment/Setting/ Operation data output, check (display, print)	Process (Photoconductor, developing, transfer, cleaning)		Data	Operation data (Machine conditions)
	26	Used to execute half tone correction compulsorily.	Adjustment	Process (Photoconductor, developing, transfer, cleaning)		Picture quality	
	27	Used to clear the half tone correction data and set to the default level.	Data clear	Process (Photoconductor, developing, transfer, cleaning)		Data	
	36	Color image density sensor and black image density sensor adjustment (simple adjustment)	Adjustment	Process (Transfer)			
46	1	Used to adjust the copy density of each color copy mode in the low-density area. The copy densities of all colors in the low-density areas are changed.	Adjustment	Process (Photoconductor, developing, transfer, cleaning)		Picture quality	Density
	2	Used to adjust the copy density of the low-density area in each monochrome copy mode. The copy density of the low-density area is changed.	Adjustment			Picture quality	Density
	4	Used to adjust the image density (color mode) in the network scan mode.	Adjustment	Scanner (reading)		Picture quality	Density
	5	Used to adjust the image density (monochrome mode) in the network scan mode.	Adjustment	Scanner (reading)		Picture quality	Density
	6	1) Used to set the CCD black level offset level. 2) Used to set the CCD white level gain.	Adjustment	Scanner (reading)		Picture quality	
	10	Used to adjust the copy color balance (color) (copy document mode) (gamma/density adjustment for each color)	Adjustment	Image process (ICU)		Picture quality	Color balance
	11	Used to adjust the copy color balance (color) (text mode/map mode) (gamma/density adjustment for each color)	Adjustment	Image process (ICU)		Picture quality	Color balance
	12	Used to adjust the copy color balance (color) (text/printed photo mode/Photograph mode) (gamma/density adjustment for each color)	Adjustment	Image process (ICU)		Picture quality	Color balance
	13	Used to adjust the copy color balance (color) (photograph mode) (gamma/density adjustment for each color)	Adjustment	Image process (ICU)		Picture quality	Color balance
	14	Used to adjust the copy color balance (color) (text/photograph mode) (gamma/density adjustment for each color)	Adjustment	Image process (ICU)		Picture quality	Color balance
	15	Used to adjust the gamma and density. (Monochrome mode)	Adjustment	Image process (ICU)		Picture quality	Density
	16	Used to adjust the gamma and density. (Monochrome mode) (The adjustment check pattern is printed.)	Adjustment	Image process (ICU)		Picture quality	Density

Code		Function (Purpose)	Purpose	Section		Item	
Main	Sub						
46	19	Used to select the half tone density (gamma) in the auto exposure mode and to set the auto exposure operation mode.	Adjustment	Image process (ICU)		Picture quality	Density
	20	Used to adjust copy color balance (All color copy mode gamma/density adjustment) (All color copy mode color balance/ gamma/density are changed.) Same as SIM 46-21, however, printing is not performed.	Adjustment	Image process (ICU)		Picture quality	Color balance
	21	Used to adjust copy color balance (All color copy mode gamma/density adjustment) (All color copy mode color balance/ gamma/density are changed.)	Adjustment	Image process (ICU)		Picture quality	Color balance
	23	Used to set Enable/Disable of half-tone high-density correction.	Adjustment			Picture quality	Color balance
	24	Used to adjust the copy color balance automatically. (All color copy mode gamma/density adjustment)	Adjustment			Picture quality	Color balance
	25	Used to adjust copy color balance (Single color mode)	Adjustment	Image process (ICU)		Picture quality	Color balance
	26	Used to set the copy color balance adjustment to the default. (Single color copy mode)	Adjustment	Image process (ICU)		Picture quality	Color balance
	27	Used to adjust the gamma/ density in the black edge section of the copy mode image. (Black text and black line reproduction adjustment)	Adjustment	Image process (ICU)		Picture quality	Color balance
	28	Used to check pre-scanning operation for automatic recognition of document in the color auto copy mode. (This simulation is used only in production, and not used in the market.)	Adjustment	Image process (ICU)		Picture quality	Color balance
	33	Used to set the foundation process conditions in the color auto copy mode, the image auto recognition conditions, and the text recognition conditions.	Setting	Image process (ICU)		Picture quality	
48	1	Used to adjust the copy magnification ratio (main scanning and sub scanning directions).	Adjustment			Picture quality	Size/ magnification ratio
	6	Used to adjust each motor RPM.	Adjustment			Operation	
49	1	Used for firmware version up (Machine/FAX).	Version up	Firmware (Machine/FAX)		Operation	
	2	Used to set the data communication speed in version up of the machine firmware.	Version up	Firmware		Operation	
	10	Used for firmware version up (Desk unit).	Version up	Firmware (Desk unit)		Operation	
50	1	Used to adjust the copy image position and the void area (image loss) on print paper in the copy mode. (The similar adjustment can be made also by SIM 50-2 (Simple method).)	Adjustment			Picture quality	Image position

Code		Function (Purpose)	Purpose	Section		Item	
Main	Sub						
50	2	Used to adjust the copy image position and the void area (image loss) on print paper in the copy mode. (Simple method) (The same content of SIM 50-1. However this simulation is easier to perform.)	Adjustment			Picture quality	Image position
	5	Used to adjust the image position and print area in the sub scanning direction. (Print engine section)	Adjustment	ICU/Printer		Picture quality	
	10	Used to adjust the print image center position. (Adjustment is performed in each paper feed position separately.)	Adjustment	Image process (ICU)		Picture quality	Image position
	12	Used to adjust the print image center position. (The adjustment is performed in each document mode separately.)	Adjustment	Image process (ICU)		Picture quality	Image position
	20	Used to adjust the image registration. (Manual adjustment)	Adjustment			Picture quality	Image position
	22	Used to adjust the image registration. (Automatic adjustment)	Adjustment			Picture quality	Image position
	24	Used to display the adjustment data of automatic registration.	Adjustment			Picture quality	Image position
	27	Used to adjust image loss in the FAX/scanner mode.	Adjustment	FAX/Scanner		Picture quality	
51	1	Used to adjust the transfer voltage ON timing.	Adjustment	Process (Photoconductor, developing, transfer, cleaning)	Transfer	Operation	
	2	Used to adjust the contact pressure of paper on the resist roller of each section (each paper feed and duplex feed of the copier). (This adjustment is required when the print image position variations are considerably great or when paper jams occur frequently.)	Adjustment	Paper transport (Paper exit, switchback, transport)		Operation	
52	1	Used to adjust the duplex print mode stacking capacity (Used to adjust the stop position of the duplex unit paper tray width alignment plate. The home position of the width alignment plate is changed by software.)	Adjustment	Duplex		Operation	
53	1	Used to adjust the document stop position in each operation mode of the RADF.	Adjustment	RADF		Operation	
	2	Used to adjust the optical sensor sensitivity in RADF.	Adjustment	RADF		Operation	
60	1	Used to check the operation of ICU PWB image DRAM read/write.	Operation test/check	ICU (Memory)		Operation	
61	4	Used to adjust the scanner (writing) unit (LED array unit) skew.	Adjustment	Scanner (writing)		Operation	
63	1	Used to check the result of shading correction. (The shading correction data are displayed.)	Adjustment/Setting/ Operation data output, check (display, print)	Scanner (Exposure)		Operation	

Code		Function (Purpose)	Purpose	Section		Item	
Main	Sub						
63	3	Used to adjust the CCD color balance (gamma).	Adjustment	Scanner (reading)		Picture quality	Color balance
	5	Used to set the CCD color balance (gamma) default.	Setting	Scanner (reading)		Picture quality	Color balance
	6	Used to check the color balance (gamma) check patch.	Adjustment/Setting/ Operation data output, check (display, print)	Image process (ICU)		Picture quality	Color balance
	7	Used to set the target color balance (gamma) for auto color balance adjustment. The standard color balance (gamma) or an optional color balance (gamma) is set as the service target.	Setting	Image process (ICU)		Picture quality	Color balance
	8	Used to set the target color balance (gamma) for auto color balance adjustment (SIM 46-24). The service target is set to the default (standard) color balance (gamma).	Setting	Scanner (reading)		Picture quality	Color balance
	9	Used to adjust the CCD gamma (CCD calibration) (copy document mode).	Setting	Scanner (reading)		Picture quality	Color balance
	10	Used to set the copy document mode color balance (gamma) default.	Setting	Scanner (reading)		Picture quality	Color balance
64	1	Used to adjust the operations of the printer section (self-print operation/color). (The print pattern, paper feed mode, print mode, print quantity, and density can be changed optionally.)	Operation test/check	Printer		Operation	
	2	Used to print the color patch image (adjustment pattern). The above color patch image (adjustment pattern) is outputted according to the currently adjusted color balance (gamma). Use SIM 63-7 to read the color patch image (adjustment pattern), which can be used as the service target of the automatic color balance (gamma) adjustment.	Adjustment/Setting/ Operation data output, check (display, print)	Printer		Operation	
	3	Used to check the operations of the printer section (self-print operation/BW). (The print pattern, the paper feed mode, the print mode, the print quantity, and the density can be set optionally.)	Operation test/check	Printer		Operation	
65	1	Used to adjust the touch panel (LCD display section) detection position.	Adjustment	Operation (Display, procedure)			
	2	Used to check the result of the touch panel (LCD display) detection position adjustment. (The coordinates are displayed.)	Adjustment/Setting/ Operation data output, check (display, print)	Operation (Display, procedure)			
67	1	Used to check the operations of printer DRAM read/write.	Operation test/check	Printer		Operation	
	11	Used to set the printer parallel I/F SELECT IN signal.	Setting	Printer		Operation	
	14	Used to perform version up of the firmware. (Printer)	Version up	Firmware (Printer)		Operation	
	17	Used to clear NVRAM. (Printer)	Data clear	Printer		Others	

Code		Function (Purpose)	Purpose	Section		Item	
Main	Sub						
67	18	Used to clear the Flash data. (Printer)	Data clear	Printer		Others	

C. Details

1

1 -1

Purpose	Operation test/check
Function (Purpose)	Used to check the operations of the scanner unit and its control circuit.
Section	Scanner (Image scanning)
Item	Operation
Operation/ Procedure	1. Select the copy (scanning) magnification ratio with the zoom key. The magnification ratio can be increased or decreased with the [ZOOM] key by the increment of 1%. The selected magnification ratio is displayed on the magnification ratio display. 2. Press the [EXECUTE] key.

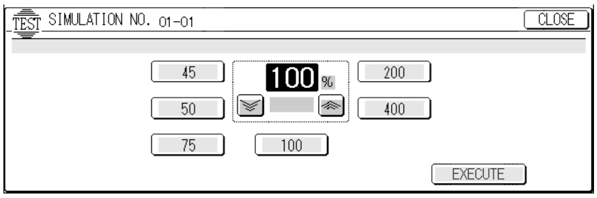
Scanning is performed at the magnification ratio set in procedure 1 is executed.

During scanning, the [EXECUTE] key is highlighted. If the [EXECUTE] key is pressed under this state, the operation is interrupted.

After completion of scanning, the [EXECUTE] key returns to the normal display.

To resume scanning, start with procedure 2. To change the magnification ratio, start with procedure 1.

Scanning is performed at the max. scanning length (432 mm). If, however, the magnification ratio is set to a value greater than 100% in procedure 1, the scanning length is changed accordingly.

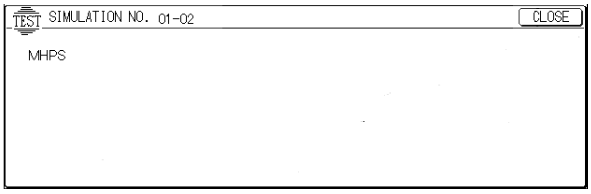


1 -2

Purpose	Operation test/check
Function (Purpose)	Used to check the sensors and detectors in the scanner section and the related circuits.
Section	Scanner (Image scanning)
Item	Operation
Operation/ Procedure	The operations of sensors and detectors in the scanner section are displayed.

The active sensors and detectors are highlighted.

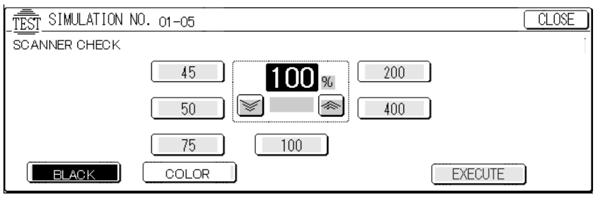
- The light source unit is at the home position. a MHPS is highlighted.
- The light source unit is not at the home position. a MHPS is displayed normally.



1 -5

Purpose	Operation test/check
Function (Purpose)	Used to check the scanner (scanning) unit and its control circuit.
Section	Scanner (Image scanning)
Item	Operation
Operation/ Procedure	1. Select the copy (scanning) magnification ratio with the key (touch panel). The magnification ratio can be increased or decreased with the [ZOOM] key by the increment of 1%. The selected magnification ratio is displayed on the magnification ratio display. 2. Select the scan mode (Color / B/W). 3. Press the [EXECUTE] key. Scanning is repeated under the conditions set in procedures 1 and 2. During scanning, the [EXECUTE] key is highlighted.

Scanning is repeatedly performed until the [EXECUTE] key or the interruption key is pressed.



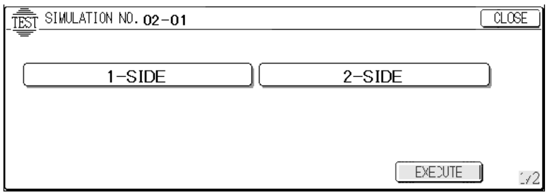
2

2 -1

Purpose	Operation test/check
Function (Purpose)	Used to check the operations of the RADF unit and the control circuit. (The document feed operation is repeatedly performed.)
Section	RADF
Item	Operation
Operation/ Procedure	1. Select the aging mode with the key. When selection is made, the selected item is highlighted. [1:SIDE]: Single copy aging mode [2:SIDE]: Duplex copy aging mode 2. Press the [EXECUTE] key.

Aging of the document feeder is executed under the conditions specified with procedure 1. During aging, the [EXECUTE] key is highlighted. If the [EXECUTE] key is pressed while it is highlighted, the operation is interrupted.

To resume aging, execute with procedure 1. To change the conditions for aging, execute with procedure 1.

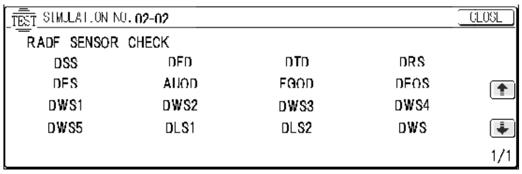


2 -2

Purpose	Operation test/check
Function (Purpose)	Used to check the operations of the sensors and detectors in the RADF unit and the related circuits.
Section	RADF
Item	Operation
Operation/ Procedure	The operations of the sensors and detectors in the RADF are displayed. The active sensors and detectors are highlighted.

[When the RADF is installed]

DSS	Empty sensor
DFD	Resist sensor
DTD	Timing sensor
DRS	Reverse sensor
DES	Paper exit sensor
AUOD	RADF open/close sensor
FGOD	Paper feed section cover open/close sensor
DEOS	Paper repulsion section cover open/close sensor
DWS1	Tray width sensor (297mm)
DWS2	Tray width sensor (11")
DWS3	Tray width sensor (257mm)
DWS4	Tray width sensor (210/8.5")
DWS5	Tray width sensor (182mm)
DLS1	Tray width sensor (240mm)
DLS2	Tray width sensor (300mm)
DWS	Document width sensor

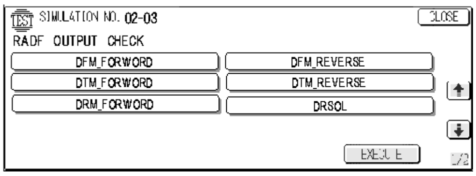


2 -3

Purpose	Operation test/check
Function (Purpose)	Used to check the operations of the loads in the RADF unit and the control circuits.
Section	RADF
Item	Operation
Operation/ Procedure	1. The names of the loads that can be operated are displayed. Select the load to be checked with the key, and the selected load is highlighted. 2. Press the [EXECUTE] key.

[When RADF is installed]

FM FORWORD	Paper feed motor forward rotation
DFM REVERSE	Paper feed motor reverse rotation
DTM FORWORD	Transport motor forward rotation
DTM REVERSE	Transport motor reverse rotation
DRM FORWORD	Paper expulsion motor forward rotation
DRSOL	Paper reverse solenoid



3

3 -2

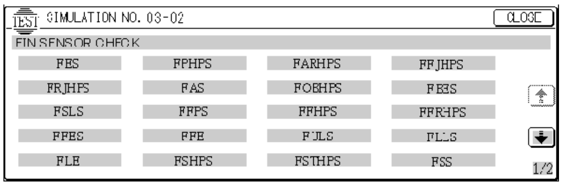
Purpose	Operation test/check
Function (Purpose)	Used to check the operations of the sensors and detectors in the finisher and the related circuits.
Section	Finisher
Item	Operation
Operation/ Procedure	The operating status of the sensors and detectors of the finisher is displayed. The active sensor/detector display is highlighted.

(Sensors to be detected)

FES	Inlet sensor
FPHPS	Paddle HP sensor
FARHPS	Bundle roller HP sensor
FFJHPS	Alignment HP sensor (F)
FRJHPS	Alignment HP sensor (R)
FAS	Alignment tray sensor
FOBHPS	Paper exit belt HP sensor
FBES	Tray paper sensor
FSLS	Paper surface sensor
FFPS	Binding position sensor
FFHPS	Binding HP sensor
FFRHPS	Binding roller HP sensor
FFES	Binding paper sensor
FFE	Binding clock sensor
FULS	Lift upper limit sensor
FLLS	Lift lower limit sensor
FLE	Lift clock sensor
FSHPS	Slide HP sensor
FSPS	Self prime sensor
FFDS	Front door sensor
FCS	Upper cover sensor
FFDSW	Front door switch
FJS	Joint switch
FSSS	Stapler safety switch
FPTS	Punch timing sensor
FPSS1	Punch side resist sensor 1
FPSS2	Punch side resist sensor 2
FPSS3	Punch side resist sensor 3
FPSS4	Punch side resist sensor 4
FPDS	Punch dust sensor
FPUC	Punch connection
FPSHPS	Punch side resist home position
FPE	Punch motor encoder

[When the sorter is installed]

SBPED	Sensor in bin
SLDHP	Lead cam HP sensor
SGBHP	Guide bar HP sensor
SBUHP	Bin unit HP sensor
SPPD	Paper exit sensor
SJSW	Joint switch
SPSW2	Push switch 2
SPSW3	Push switch 3
SDIPSW1	DIP switch (SW1)
SDIPSW2	DIP switch (SW2)
SDIPSW3	DIP switch (SW3)
SDIPSW4	DIP switch (SW4)
SDIPSW5	DIP switch (SW5)
SDIPSW6	DIP switch (SW6)


TEST SIMULATION NO. 03-02
CLOSE
FIN SENSOR CHECK
FES
FPHPS
FARHPS
FFJHPS
FRJHPS
FAS
FOBHPS
FEES
FSLS
FFPS
FFHPS
FFRHPS
FFES
FFE
FULS
FLLS
FLE
FSHPS
FSTHPS
FSS
1/2

3 -3

Purpose	Operation test/check
Function (Purpose)	Used to check the loads in the finisher and the control circuit.
Section	Finisher
Item	Operation
Operation/ Procedure	1. The names of the loads that can be checked are displayed. Select a load to be checked with the key. 2. Press the [EXECUTE] key. The selected load operates.

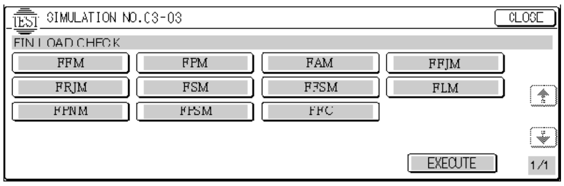
During the load operation, the [EXECUTE] key and the load key are highlighted. Under this state, pressing the [EXECUTE] key interrupts the load operation.

(Loads to be selected)

FFM	Transport motor	FFSM	Stapler motor
FPM	Paddle motor	FLM	Shift motor
FAM	Bundle exit motor	FPNM	Punch motor
FFJM	Alignment motor (F)	FPSM	Puncher side resist motor
FRJM	Alignment motor (R)	FFC	Folding clutch
FSM	Slide motor		

(When the sorter is installed)

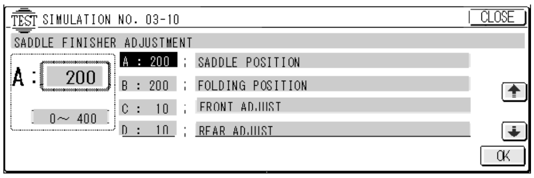
SBSM	Bin unit shift motor
SPFM	Transport motor
SGBM	Guide bar drive motor


TEST SIMULATION NO.03-03
CLOSE
FIN LOAD CHECK
FFM
FPM
FAM
FFJM
FRJM
FSM
FFSM
FLM
FPNM
FPSM
FFC
EXECUTE
1/1

3 -10

Purpose	Operation test/check
Function (Purpose)	Used to adjust the sections in the finisher.
Section	Finisher
Item	Operation
Operation/ Procedure	1. Select the adjustment item with the scroll key. 2. Enter the adjustment value with the 1o-key and press the OK key to set the value.

	Item	Set range	Initial value
A	Saddle binding position adjustment	0 – 400	200
B	Saddle folding position adjustment	0 – 400	200
C	Front alignment position adjustment	0 – 20	10
D	Rear alignment position adjustment	0 – 20	10
E	Staple rear one-point binding position adjustment	0 – 200	100
F	Staple front one-point binding position adjustment	0 – 200	100
G	Staple two-point binding center adjustment	0 – 200	100
H	Staple two-point binding pitch adjustment	0 – 100	50
I	Punch center adjustment	47 – 53	50
J	Punch hole position adjustment	0 – 100	50


TEST SIMULATION NO. 03-10
CLOSE
SADDLE FINISHER ADJUSTMENT
OK

A : 200

0～ 400

A : 200 ; SADDLE POSITION

B : 200 ; FOLDING POSITION

C : 10 ; FRONT ADJUST

D : 10 ; REAR ADJUST

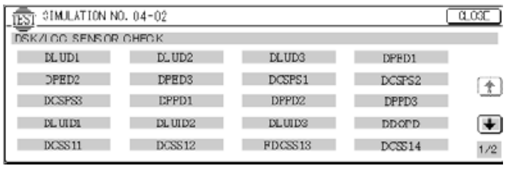
4

4 -2

Purpose	Operation test/check
Function (Purpose)	Used to check the operations of the desk/large capacity tray sensors and detectors and the related circuits.
Section	Paper feed
Item	Operation
Operation/ Procedure	The operating conditions of the sensors and detectors in the paper feed section are displayed. The active sensors and detectors are highlighted.

(Sensors to be detected)

DLUD1	Desk 1cs upper limit detection
DLUD2	Desk 2cs upper limit detection
DLUD3	Desk 3cs upper limit detection
DPED1	Desk 1cs paper empty detector
DPED2	Desk 2cs paper empty detection
DPED3	Desk 3cs paper empty detection
DCSPS1	Desk 1cs remaining quantity detection
DCSPS2	Desk 2cs remaining quantity detection
DCSPS3	Desk 3cs remaining quantity detection
DPPD1	Desk paper transport detection 1
DPPD2	Desk paper transport detection 2
DPPD3	Desk paper transport detection 3
DLUID1	Desk 1cs lift unit installation detection
DLUID2	Desk 2cs lift unit installation detection
DLUID3	Desk 3cs lift unit installation detection
DDOPD	Desk door open detection
DCSS11	Desk 1cs paper size detection 1
DCSS12	Desk 1cs paper size detection 2
DCSS13	Desk 1cs paper size detection 3
DCSS14	Desk 1cs paper size detection 4
DCSS21	Desk 2cs paper size detection 1
DCSS22	Desk 2cs paper size detection 2
DCSS23	Desk 2cs paper size detection 3
DCSS24	Desk 2cs paper size detection 4
DCSS31	Desk 3cs paper size detection 1
DCSS32	Desk 3cs paper size detection 2
DCSS33	Desk 3cs paper size detection 3
DCSS34	Desk 3cs paper size detection 4
LRE	LCC remaining quantity detection
LUD	LCC upper limit detection
LDD	LCC lower limit detection
LPED	LCC paper empty detection
LPFD	LCC paper exit detection
LDSW	LCC door open detection
LTOD	LCC release detection
24V	LCC 24V detection
LCD	LCC cassette detection


TEST SIMULATION NO. 04-02
CLOSE
DSK/LCC SENSOR CHECK
DLUD1
DLUD2
DLUD3
DPED1
DPED2
DPED3
DCSPS1
DCSPS2
DCSPS3
DPPD1
DPPD2
DPPD3
DLUID1
DLUID2
DLUID3
DDOPD
DCSS11
DCSS12
FDCSS13
DCSS14
1/2

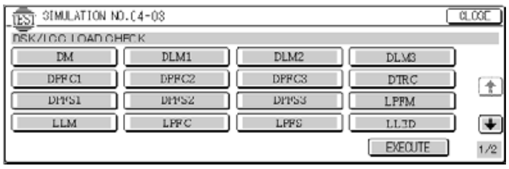
4 -3

Purpose	Operation test/check
Function (Purpose)	Used to check the operations of the desk/large capacity tray loads and the control circuit.
Section	Paper feed
Item	Operation
Operation/ Procedure	1. The names of the loads that can be checked are displayed. Select a load to be checked with the key, and the selected load is highlighted. 2. Press the [EXECUTE] key. The load selected in procedure 1 starts the operation.

During the operation of the load, the [EXECUTE] key is highlighted. If the [EXECUTE] key is pressed while it is highlighted, the operation is stopped.

(Loads to be selected)

DM	Desk transport motor
DLM1	Desk 1cs lift-up motor
DLM2	Desk 2cs lift-up motor
DLM3	Desk 3cs lift-up motor
DPFC1	Desk 1cs paper feed clutch
DPFC2	Desk 2cs paper feed clutch
DPFC3	Desk 3cs paper feed clutch
DTRC	Desk transport clutch
DPFS1	Desk 1cs paper feed solenoid
DPFS2	Desk 2cs paper feed solenoid
DPFS3	Desk 3cs paper feed solenoid
LPFM	LCC transport motor
LLM	LCC lift motor up-down operation
LPFC	LCC paper feed clutch
LPFS	LCC paper feed solenoid
LLED	LCC door open LED
LTRC	LCC transport clutch

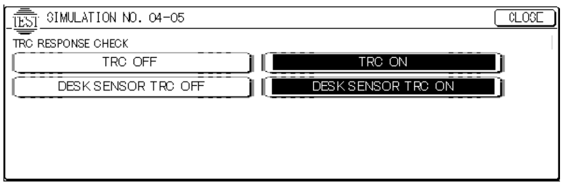

TEST
SIMULATION NO.04-03
CLOSE
DSK/LCC LOAD CHECK
DM
DLM1
DLM2
DLM3
DPFC1
DPFC2
DPFC3
DTRC
DPFS1
DPFS2
DPFS3
LPFM
LLM
LPFC
LPFS
LLED
EXECUTE
1/2

4 -5

Purpose	Operation test/check
Function (Purpose)	Used to check the operations of the clutch TRC and the monitor.
Section	Paper feed
Item	Operation
Operation/ Procedure	1. Press the [TRC ON] key. (The load operates.) 2. Press the [TRC OFF] key to terminate checking.

When the [TRC ON] key or the [TRC OFF] key is pressed, the TRC clutch is turned ON or OFF.

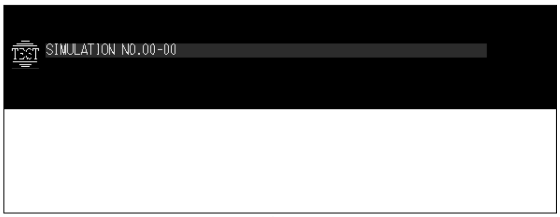
If the response of monitoring TRC ON/OFF is made, DESK SENSOR TRC ON/OFF is displayed.


TEST
SIMULATION NO. 04-05
CLOSE
TRC RESPONSE CHECK
TRC OFF
TRC ON
DESK SENSOR TRC OFF
DESK SENSOR TRC ON

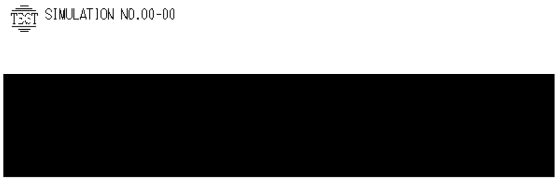
5

5 -1

Purpose	Operation test/check
Function (Purpose)	Used to check the operations of the display lamp (LED)/ LCD on the operation panel and the control circuits.
Section	Operation (Display, procedure)
Item	Operation
Operation/ Procedure	The LCD shows the following message. (The contrast changes in the sequence of Current level → MAX → MIN → Current level → MAX → MIN in every 2sec.) During that period, each LED is lighted for 12sec.


TEST
SIMULATION NO.00-00

↓ 6sec

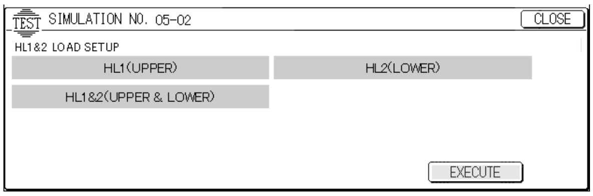

TEST
SIMULATION NO.00-00

5 -2

Purpose	Operation test/check
Function (Purpose)	Used to check the operations of the heater lamp and its control circuit.
Section	Fusing
Item	Operation
Operation/ Procedure	1. Select the lamp to be checked with the key. 2. Press the [EXECUTE] key.

The selected heater lamp repeats ON/OFF in the frequency of 500msec for 10sec. (The [EXECUTE] key is highlighted.) Then the [EXECUTE] key returns to the normal display. When the [EXECUTE] key is pressed during ON/OFF operation of the heater lamp, the heater lamp is turned OFF and the [EXECUTE] key returns to the normal display.

HL1 (UPPER)	Upper heater lamp
HL2 (LOWER)	Lower heater lamp
HL1&2 (UPPER & LOWER)	Upper/lower fusing heater lamp

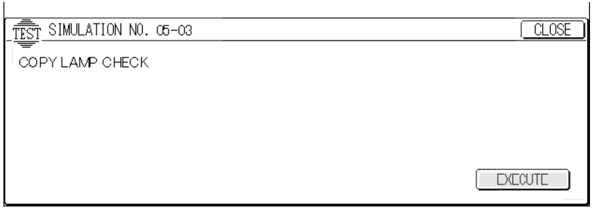

TEST
SIMULATION NO. 05-02
CLOSE
HL1&2 LOAD SETUP
HL1(UPPER)
HL2(LOWER)
HL1&2(UPPER & LOWER)
EXECUTE

5 -3

Purpose	Operation test/check
Function (Purpose)	Used to check the operations of the scanner lamp and its control circuit.
Section	Scanner (Image scanning)
Item	Operation

Operation/ Procedure	When the [EXECUTE] key is pressed, the scanner lamp is lighted for 10 sec. While the scanner lamp is lighted, the [EXECUTE] key is highlighted. If the [EXECUTE] key is pressed under this state, the lamp is turned OFF.

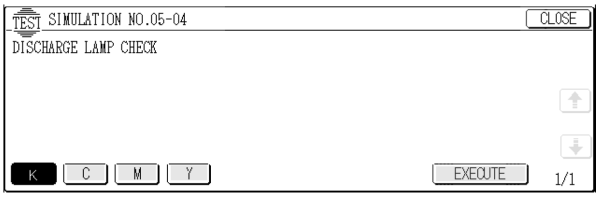
After 10 sec, the scanner lamp is turned OFF. At that time, the [EXECUTE] key returns to the normal display.



5 -4

Purpose	Operation test/check
Function (Purpose)	Used to check the operations of the discharge lamp and its control circuit.
Section	Process (Photoconductor, developing, transfer, cleaning) Others
Item	Operation
Operation/ Procedure	1. Select the target discharge lamp with the [K], [C], [M], and [Y] keys. (K: Black, C: Cyan, M: Magenta, Y: Yellow)

2. When the [EXECUTE] key is pressed, the key is highlighted and the selected discharge lamp is lighted for 30sec. If the [EXECUTE] key is pressed while the lamp is lighted, the lamp is turned OFF.



6

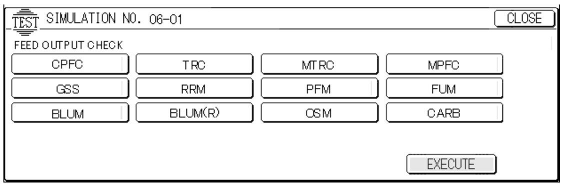
6 -1

Purpose	Operation test/check
Function (Purpose)	Used to check the operations of the loads (clutches and solenoids) in the paper transport system, transfer, and fusing, and the control circuit.
Section	Paper transport (paper exit, switchback, transport), transfer, fusing
Item	Operation
Operation/ Procedure	1. The names of the loads that can be checked are displayed. Select the load to be checked with the key, and the selected load is highlighted. 2. Press the [EXECUTE] key. The selected load starts the operation. During the operation of the load, the [EXECUTE] key is highlighted. If the [EXECUTE] key is pressed while it is highlighted, the operation is stopped.

(Loads to be selected)

CPFC	Cassette transport clutch
TRC	Cassette paper feed clutch
MTRC	Manual paper feed clutch
MPFC	Manual transport clutch
GSS	Paper exit gate select solenoid
RRM	Resist roller motor (PSM)
PFM	Paper feed motor (Vertical transport)
FUM	Fusing motor
BLUM	Lift motor
BLUM (R)	* Lift motor (Reverse rotation/waste toner transport motor)
OSM	Offset motor (Job separator)
CARB	Calibration plate

* When BLUM is ON, the belt moves up.
When BLUM is OFF, the belt moves down.

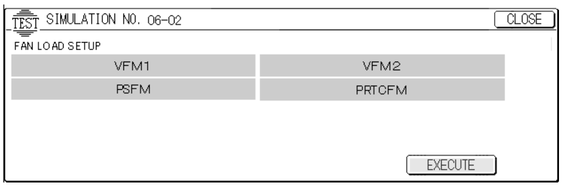


6 -2

Purpose	Operation test/check
Function (Purpose)	Used to check the operations of the fan motors and the control circuits.
Section	Others
Item	Operation
Operation/ Procedure	1. The loads that can be checked are displayed. Select one to be checked. 2. Press the [EXECUTE] key. The selected load is operated. During operation, the [EXECUTE] key is highlighted. If the [EXECUTE] key is pressed while it is highlighted, the operation is stopped.

(Loads to be selected.)

VFM1	Fusing fan 1
VFM2	Fusing fan 2
PSFM	Power fan
PRTCFM	Process exhaust fan



7

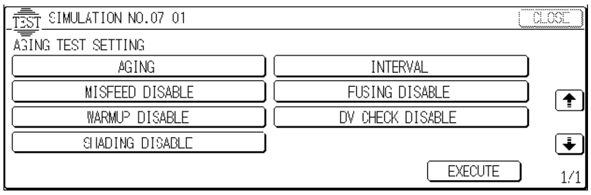
7 -1

Purpose	Setting/Operation test/check
Function (Purpose)	Used to set the aging conditions.
Item	Operation
Operation/ Procedure	1. Press each corresponding key to set for the aging operation. (Set items of each key) The selected key is highlighted. 2. Press the [EXECUTE] key. Aging is set and the display returns to the simulation main code entry menu.

* The setup contents of this simulation remain unchanged until the power is turned off. When this simulation is executed, SIM 7-8 (Warm-up time display setting) is canceled.

(Set content)

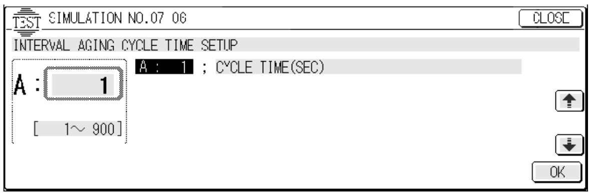
[AGING]	Jam detection setup
[INTERVAL]	Intermittent setup
[MISFEED DISABLE]	Jam detection YES/NO setup
[FUSING DISABLE]	Fusing operation YES/NO detection
[WARMUP DISABLE]	Warm-up saving setup
[DV CHECK DISABLE]	Developing tank detection YES/NO setup
[SHADING DISABLE]	Shading saving setup


TEST SIMULATION NO.07 01
CLOSE
AGING TEST SETTING
AGING
INTERVAL
MISFEED DISABLE
FUSING DISABLE
WARMUP DISABLE
DV CHECK DISABLE
SHADING DISABLE
EXECUTE
1/1

7 -6

Purpose	Setting/Operation test/check
Function (Purpose)	Used to set the cycle of intermittent aging.
Item	Operation
Operation/ Procedure	1. Enter the interval aging cycle time (sec) with the 10-key pad. 2. Press [OK] key (or B/W Start key, Color Start key) to set the entered cycle time.

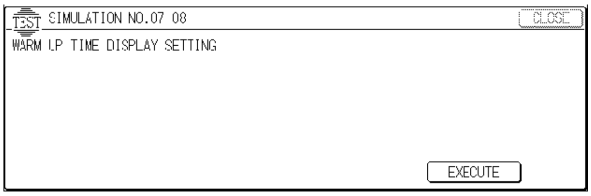
∗ The interval time set range is 1 - 999sec. [Default: 3]


TEST SIMULATION NO.07 06
CLOSE
INTERVAL AGING CYCLE TIME SETUP
A :
1
A : 1 ; CYCLE TIME(SEC)
[1～ 900]
OK

7 -8

Purpose	Setting/Operation test/check
Function (Purpose)	Used to set Yes/No of warm-up time display.
Item	Operation
Operation/ Procedure	Press the [EXECUTE] key to set the warm-up time display. When the [EXECUTE] key is pressed, the warm-up time display setting is executed and the display returns to the simulation main code entry display.

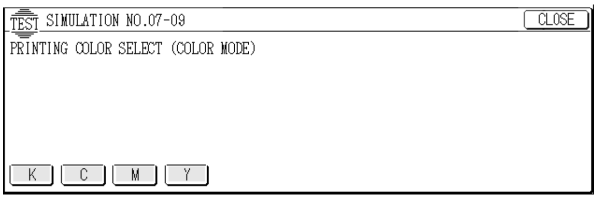
∗ The setup contents of this simulation remain unchanged until the power is turned off. When SIM 7-1 is executed, the setup contents are canceled.


TEST SIMULATION NO.07 08
CLOSE
WARM UP TIME DISPLAY SETTING
EXECUTE

7 -9

Purpose	Setting/Operation test/check
Function (Purpose)	Used to check the image quality and operations of each color.
Section	Others
Item	Picture quality
Operation/ Procedure	1. Select the color of image quantity and operation check with the key. 2. Press the START key.

Copying is performed with the color selected in procedure 1).
When no print color is selected, the operation is made with the all colors.


TEST SIMULATION NO.07-09
CLOSE
PRINTING COLOR SELECT (COLOR MODE)
K
C
M
Y

8

8 -1

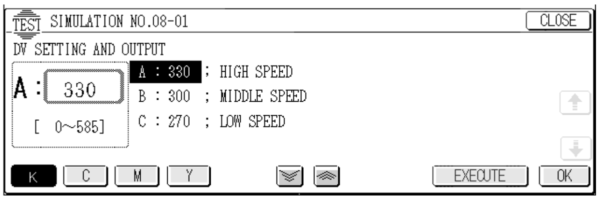
Purpose	Adjustment/Operation test/check
Function (Purpose)	Used to check and adjust the operations of the developing bias voltage of each color and the control circuit.
Section	Process (Photoconductor, developing, transfer, cleaning)
Operation/ Procedure	(The developing bias output voltage in each of the following print modes can be adjusted and checked.) (Adjustment range) 180 - 700 (Default: See below) 1. Select the color mode with the [K], [C], [M], or [Y] key. 2. Select the copy mode with the scroll key. 3. Enter the adjustment value with the 10-key pad. 4. Press the [EXECUTE] key.

The [EXECUTE] key is highlighted. When the adjustment value entered in procedure 2) and the corresponding voltage is outputted.

The voltage is outputted for 30sec, then the [EXECUTE] key returns to the normal display. When the EXECUTE key is pressed during output of the voltage, the output is stopped and the [EXECUTE] key returns to the normal display.

(Set value)

Color	Item	Operation mode	Adjustment value		Developing bias voltage			
					Monitor (High voltage PWB)		Pin No.	Actual voltage
			Adjustment range	Specified value (Default)	Monitor voltage (Specified value)	Connector		
K	A: HIGH SPEED	High speed (140mm/s) (B & W)	180 – 700	315	7.43 ± 0.1V	CNMONK	3	–315v
	B: MIDDLE SPEED	Middle speed (117mm/s) (Color) (B & W)	180 – 700	315	7.43 ± 0.1V	CNMONK	3	–315v
	C: LOW SPEED	Low speed (58.5mm/s) (Color) (B & W) (Special paper)	180 – 700	285	6.45 ± 0.1V	CNMONK	3	–285v
C	A: MIDDLE SPEED	Middle speed (117mm/s) (Color) (B & W)	180 – 700	265	5.76 ± 0.1V	CNMON	1	–265v
	B: LOW SPEED	Low speed (58.5mm/s) (Color) (B & W) (Special paper)	180 – 700	235	4.75 ± 0.1V	CNMON	1	–235v
M	A: MIDDLE SPEED	Middle speed (117mm/s) (Color) (B & W)	180 – 700	265	5.76 ± 0.1V	CNMON	5	–265v
	B: LOW SPEED	Low speed (58.5mm/s) (Color) (B & W) (Special paper)	180 – 700	235	4.75 ± 0.1V	CNMON	5	–235v
Y	A: MIDDLE SPEED	Middle speed (117mm/s) (Color) (B & W)	180 – 700	240	4.75 ± 0.1V	CNMON	9	–240v
	B: LOW SPEED	Low speed (58.5mm/s) (Color) (B & W) (Special paper)	180 – 700	210	3.78 ± 0.1V	CNMON	9	–210v



TEST SIMULATION NO.08-01

DV SETTING AND OUTPUT

A : 330

[0~585]

A : 330 ; HIGH SPEED

B : 300 ; MIDDLE SPEED

C : 270 ; LOW SPEED

8 -2

Purpose	Adjustment/Operation test/check
Function (Purpose)	Used to check and adjust the operation of each print mode main charger grid voltage and the control circuit.
Section	Process (Photoconductor, developing, transfer, cleaning)
Operation/ Procedure	(The charging/grid output voltage in each print mode can be adjusted and checked.)

1. Select the color mode with the [K], [C], [M], and [Y] keys.
2. Select the print mode with [↑] key and [↓] key.
3. Enter the adjustment value with the 10-key pad.
4. Press the [EXECUTE] key.

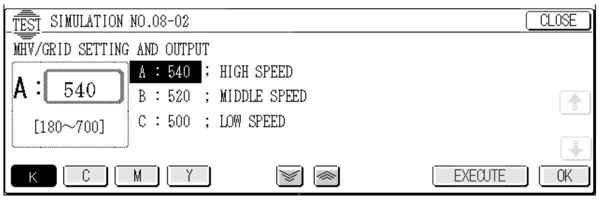
The [EXECUTE] key is highlighted, the adjustment value entered in procedure 2 is set, and the voltage corresponding to the set value is outputted.

The voltage is supplied for 30 sec, then the [EXECUTE] key returns to the normal display.

If the [EXECUTE] key is pressed while the voltage is supplied, the voltage output is stopped and the [EXECUTE] key returns to the normal display.

(Set value)

Color	Item	Operation mode	Adjustment value		Main charger grid voltage			
					Monitor (High voltage PWB)		Pin No.	Actual voltage
			Adjustment range	Specified value (Default)	Monitor voltage (Specified value)	Connector		
K	A: HIGH SPEED	High speed (140mm/s) (B & W)	180 – 700	620	53.5 ± 0.2v	CNMONK	1	–620v
	B: MIDDLE SPEED	Middle speed (117mm/s) (Color) (B & W)	180 – 700	620	53.5 ± 0.2v	CNMONK	1	–620v
	C: LOW SPEED	Low speed (58.5mm/s) (Color) (B & W) (Special paper)	180 – 700	590	50.6 ± 0.2v	CNMONK	1	–590v
C	A: MIDDLE SPEED	Middle speed (117mm/s) (Color) (B & W)	180 – 700	620	53.5 ± 0.2v	CNMON	3	–620v
	B: LOW SPEED	Low speed (58.5mm/s) (Color) (B & W) (Special paper)	180 – 700	590	50.6 ± 0.2v	CNMON	3	–590v
M	A: MIDDLE SPEED	Middle speed (117mm/s) (Color) (B & W)	180 – 700	620	53.5 ± 0.2v	CNMON	7	–620v
	B: LOW SPEED	Low speed (58.5mm/s) (Color) (B & W) (Special paper)	180 – 700	590	50.6 ± 0.2v	CNMON	7	–590v
Y	A: MIDDLE SPEED	Middle speed (117mm/s) (Color) (B & W)	180 – 700	620	53.5 ± 0.2v	CNMON	11	–620v
	B: LOW SPEED	Low speed (58.5mm/s) (Color) (B & W) (Special paper)	180 – 700	590	50.6 ± 0.2v	CNMON	11	–590v



SIMULATION NO.08-02

MHV/GRID SETTING AND OUTPUT

A : 540

[180~700]

A : 540 ; HIGH SPEED
B : 520 ; MIDDLE SPEED
C : 500 ; LOW SPEED

8 -6

Purpose	Adjustment/Operation test/check
Function (Purpose)	Used to check and adjust the operation of the transfer charger current and the control circuit.
Section	Process (Photoconductor, developing, transfer, cleaning) Transfer
Operation/ Procedure	1. Select the color mode with the [K], [C], [M], and [Y] keys. 2. Select the copy mode with the scroll key. 3. Enter the adjustment value with the 10-key pad. 4. Press the [EXECUTE] key.

The [EXECUTE] key is highlighted, the adjustment value entered in procedure 2 is set, and the voltage corresponding to the set value is outputted.

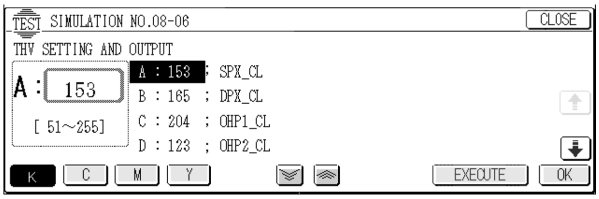
The voltage is supplied for 30 sec, then the [EXECUTE] key returns to the normal display.

If the [EXECUTE] key is pressed while the voltage is supplied, the voltage output is stopped and the [EXECUTE] key returns to the normal display.

In this simulation, when the transfer voltage is supplied, the transfer belt and the OPC drum rotates at the same time. Therefore, the above parts are not damaged.

(Items to be selected/replaced)

Item		Print mode			Standard setting value (Default)				Adjustment range	Output voltage (Kv)			
					K	C	M	Y		K	C	M	Y
A	PLAIN_SPX_CL	Color	Normal paper	117mm/s	173	159	132	132	51 - 255	2.4	2.4	2.4	2.4
B	PLAIN_DPX_CL	Color	Normal paper(Duplex mode)	117mm/s	188	173	142	142		2.7	2.7	2.7	2.7
C	OHP1_CL	Color	Transparency film 1	117mm/s	204	187	153	153		3	3	3	3
D	OHP2_CL	Color	Transparency film 2	58.5mm/s	137	150	153	163		1.7	2.2	3	3.3
E	HEAVY P1_SPX_CL	Color	Thick paper 1	58.5mm/s	158	146	122	122		2.1	2.1	2.1	2.1
F	HEAVY_P1_DPX_CL	Color	Thick paper 1(Duplex mode)	58.5mm/s	188	173	142	142		2.7	2.7	2.7	2.7
G	HEAVY_P2_CL	Color	Thick paper 2	58.5mm/s	173	159	132	132		2.2	2.2	2.2	2.2
H	ENV_CL	Color	Envelope	117mm/s	163	150	125	125		2.2	2.2	2.2	2.2
I	PLAIN_SPX_BW	B & W	Normal paper	140mm/s	168					2.3			
J	PLAIN_DPX_BW	B & W	Normal paper(Duplex mode)	140mm/s	178					2.5			
K	OHP1_BW	B & W	Transparency film 1	117mm/s	204					3			
L	OHP2_BW	B & W	Transparency film 2	58.5mm/s	137					1.7			
M	HEAVY_P1_SPX_BW	B & W	Thick paper 1	58.5mm/s	147					1.9			
N	HEAVY_P1_DPX_BW	B & W	Thick paper 1(Duplex mode)	58.5mm/s	178					2.5			
O	HEAVY_P2_BW	B & W	Thick paper 2	58.5mm/s	163					2.2			
P	ENV_BW	B & W	Envelope	140mm/s	168					2.3			



SIMULATION NO.08-06

THV SETTING AND OUTPUT

A : 153

[51~255]

A : 153 ; SPX_CL
B : 165 ; DPX_CL
C : 204 ; OHP1_CL
D : 123 ; OHP2_CL

9

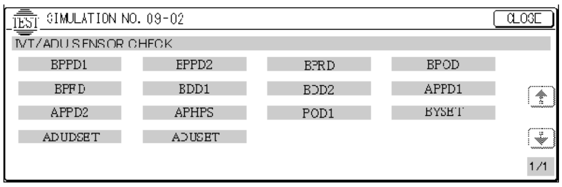
9 -2

Purpose	Operation test/check
Function (Purpose)	Used to check the operation of the sensors and detectors in the inverter/duplex section and the control circuit.
Section	Inverter/Duplex
Item	Operation
Operation/ Procedure	The operations of sensors and detectors in the inverter/ duplex section are displayed. The active sensors and detectors are highlighted.

(Check item)

BPID	Inverter paper entry detection
BPPD1	Inverter transport detection 1
BPPD2	Inverter transport detection 2
BPRD	Inverter reverse detection
BPOD	Inverter paper exit detection
BPFD	Inverter full detection

BDD1	Inverter door detection 1
BDD2	Inverter door detection 2
APPD1	ADU transport detection 1
APPD2	ADU transport detection 2
APHPS	ADU alignment plate home position
POD1	Machine paper exit detection
BYSET	Inverter installation detection
ADUDSET	ADU installation detection
ADUSET	ADU door open/close detection

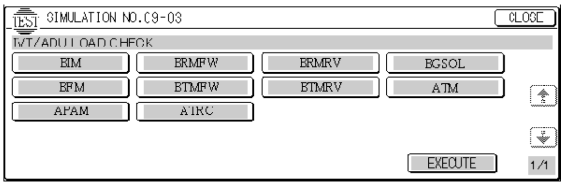

TEST
SIMULATION NO. 09-02
CLOSE
IVT/ADU SENSOR CHECK
BPPD1
EPPD2
BPRD
BPOD
BPFD
BDD1
BDD2
APPD1
APPD2
APHPS
POD1
BYSET
ADUDSET
ADUSET
1/1

9 -3

Purpose	Operation test/check
Function (Purpose)	Used to check the operations of the loads (motor, clutch, solenoid) in the inverter/duplex section and the control circuits.
Section	Inverter/Duplex
Item	Operation
Operation/ Procedure	1. Select the load to be checked with the 10-key pad. 2. Press the [EXECUTE] key. The load selected in procedure 1 operates.

While the load operates, the [EXECUTE] key is highlighted.
When the [EXECUTE] key is pressed under this state, the operation of the load can be interrupted.

BIM	Inverter paper entry motor
BRMFW	Inverter reverse motor (Normal rotation)
BRMRV	Inverter reverse motor (Reverse rotation)
BGSOL	Inverter gate solenoid
BTMFW	Inverter transport motor (Normal rotation)
BTMRV	Inverter transport motor (Reverse rotation)
ATM	ADU transport motor
APAM	ADU alignment motor
ATRC	ADU transport clutch


TEST
SIMULATION NO.09-03
CLOSE
IVT/ADU LOAD CHECK
BIM
BRMFW
BRMRV
BGSOL
BFM
BTMFW
BTMRV
ATM
APAM
ATRC
EXECUTE
1/1

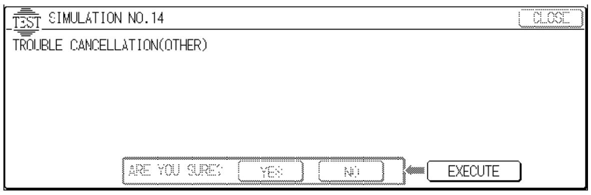
14

14 -0

Purpose	Clear/cancel (Trouble etc.)
Function (Purpose)	Used to cancel self diag troubles H3, H4, and H5. Inhibition of the color copy mode operation is canceled.
Item	Trouble Error
Operation/ Procedure	1. Press the [EXECUTE] key. (YES/NO key display) 2. When YES key is pressed, the following troubles are cleared. (Cancel with NO key.)

(Trouble codes to be canceled)

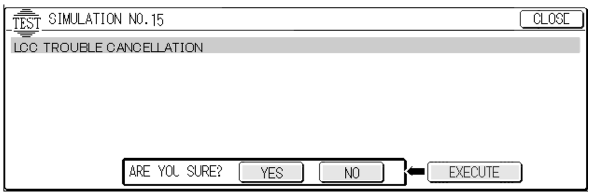
Target trouble codes	Descriptions
H3-00	Heat roller high temperature detection (HL1)
H3-01	Heat roller high temperature detection (HL2)
H4-00	Heat roller low temperature detection (HL1)
H4-01	Heat roller low temperature detection (HL2)
H5-01	Five continuous detections of POD1 not-reached jam


TEST
SIMULATION NO.14
CLOSE
TROUBLE CANCELLATION(OTHER)
ARE YOU SURE?
YES
NO
EXECUTE

15

15 -0

Purpose	Clear/cancel (Trouble etc.)
Function (Purpose)	Self diag U6-09 (large capacity paper feed tray) trouble cancel
Section	Paper feed
Item	Trouble Error
Operation/ Procedure	Press the [EXECUTE] key to cancel the trouble. * Press the [CLOSE] key to terminate the simulation.


TEST
SIMULATION NO.15
CLOSE
LCC TROUBLE CANCELLATION
ARE YOU SURE?
YES
NO
EXECUTE

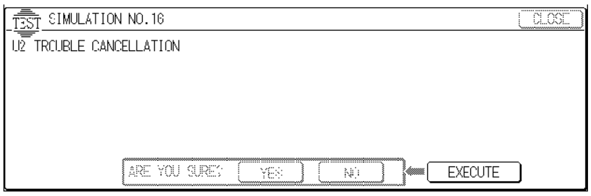
16

16 -0

Purpose	Clear/cancel (Trouble etc.)
Function (Purpose)	Used to cancel self diag trouble U2.
Item	Trouble Error
Operation/ Procedure	1. Press the [EXECUTE] key. (YES/NO key display) 2. When YES key is pressed, the following troubles are cleared. (Cancel with NO key.)

(Trouble codes to be canceled)

Target trouble codes	Descriptions
U2-00	EEPROM read/write error (OPE)
U2-11	EEPROM check sum error (OPE)
U2-80	EEPROM read/write error (SCN)
U2-81	EEPROM check sum error (SCN)
U2-90	EEPROM read/write error (PCU)
U2-91	EEPROM check sum error (PCU)


TEST
SIMULATION NO.16
CLOSE
U2 TROUBLE CANCELLATION
ARE YOU SURE?
YES
NO
EXECUTE

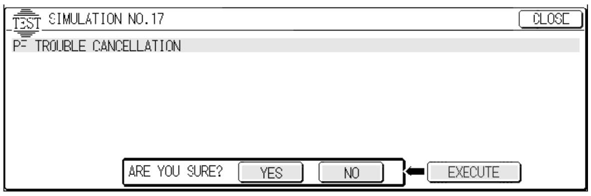
17

17 -0

Purpose	Clear/cancel (Trouble etc.)	
Function (Purpose)	Used to cancel self diag troubles PF (copy inhibition command from the host computer).	
Section	Communication (RIC/MODEM)	
Item	Trouble	Error
Operation/ Procedure	1. Press the [EXECUTE] key. (YES/NO key display) 2. When YES key is pressed, the following troubles are cleared. (Cancel with NO key.)	

(Trouble codes to be canceled)

Target trouble codes	Descriptions
PF-00	PC copy inhibition signal reception


TEST
SIMULATION NO.17
CLOSE
PF TROUBLE CANCELLATION
ARE YOU SURE?
YES
NO
EXECUTE

21

21 -1

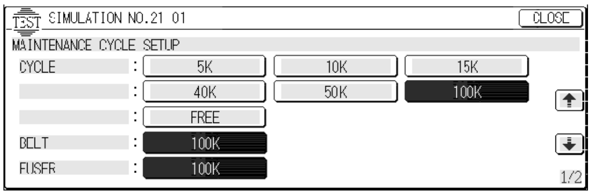
Purpose	Setting	
Function (Purpose)	Used to set the maintenance cycle.	
Item	Specifications	Counter
Operation/ Procedure	1. The current setup is displayed. (Highlighted) 2. When the maintenance cycle is selected with the key, the selected key is highlighted.	

The maintenance message is displayed in every selected cycle.

When FREE is selected, the maintenance display is not shown.

(Cycle to be set)

Item	Set value	Content	Default
CYCLE	0	5K	100K
	1	10K	
	2	15K	
	3	40K	
	4	50K	
	5	100K	
	6	FREE	
BELT	50	100K	100K
	100	100K	
FUSER	50	100K	100K
	100	100K	


TEST
SIMULATION NO.21 01
CLOSE
MAINTENANCE CYCLE SETUP
CYCLE
5K
10K
15K
40K
50K
100K
FREE
BELT
100K
FUSER
100K
1/2

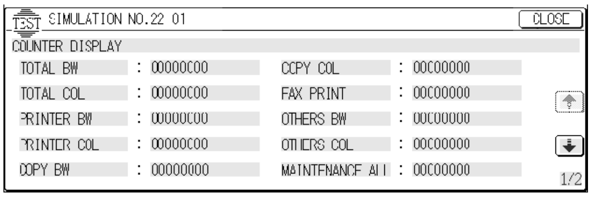
22

22 -1

Purpose	Adjustment/Setting/Operation data output and check (display, print)
Function (Purpose)	Used to check the print count value in each section and each operation mode. (Used to check the maintenance timing.)
Item	Counter
Operation/ Procedure	The counter values are displayed.

(Counter values to be displayed)

TOTAL BW	All valid paper counters (B/W)
TOTAL COL	All valid paper counters (Color)
PRINTER BW	Print counter (B/W)
PRINTER COL	Print counter (Color)
SINGLE COLOR	Single color
COPY BW	Copy counter (B/W)
COPY COL	Copy counter (Color)
FAX PRINT	FAX print counter (B/W only)
OTHERS BW	Other counter (B/W only)
OTHERS COL	Other counter (Color)
MAINTENANCE ALL	Maintenance counter (Total)
MAINTENANCE COL	Maintenance counter (Color)
BELT UNIT	Transfer unit print counter
BELT UNIT RANGE	Transfer unit accumulated mileage
BELT UNIT DAY	Transfer unit use days
FUSER UNIT	Fusing unit print counter
FUSER ACUM DAY	Fusing unit use days


TEST
SIMULATION NO.22 01
CLOSE
COUNTER DISPLAY
1/2

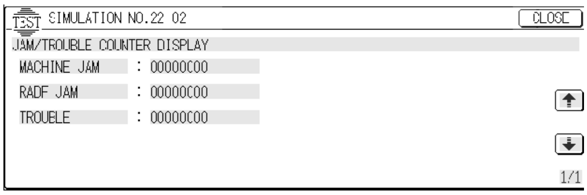
TOTAL BW : 00000000
TOTAL COL : 00000000
PRINTER BW : 00000000
PRINTER COL : 00000000
COPY BW : 00000000
COPY COL : 00000000
FAX PRINT : 00000000
OTHERS BW : 00000000
OTHERS COL : 00000000
MAINTENANCE ALL : 00000000

22 -2

Purpose	Adjustment/Setting/Operation data output, check (display, print)
Function (Purpose)	Used to check the total misfeed count and the total trouble count. (If the misfeed count is considerably great, it may be judged as necessary to repair. By dividing this count by the total count, the misfeed rate can be obtained.)
Item	Trouble
Operation/ Procedure	The counter values are displayed.

(Display contents)

Display	Content
MACHINE JAM	Machine jam counter
RADF JAM	ADF jam counter
TROUBLE	Trouble counter


TEST
SIMULATION NO.22 02
CLOSE
JAM/TROUBLE COUNTER DISPLAY
1/1

MACHINE JAM : 00000000
RADF JAM : 00000000
TROUBLE : 00000000

22 -3

Purpose Adjustment/Setting/Operation data output, check (display, print)

Function (Purpose) Used to check misfeed positions and the misfeed count of each position. (If the misfeed count is considerably great, it may be judged as necessary to repair.) (Machine section only)

Item Trouble Misfeed

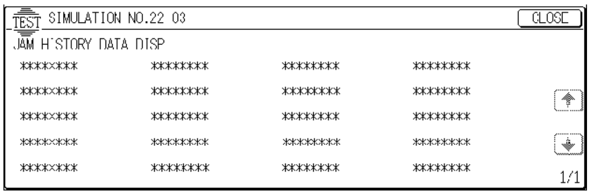
Operation/ Procedure Used to display the misfeed history.

The misfeed history sections are displayed sequentially from the latest one. Max. 50 items of information can be stored, and the oldest one is deleted sequentially. The trouble position may be presumed with this data.

(Jam code list)

Group	Sensor	Display	Comment
Paper feed	–	********	
	PFD1	TRAY1	Tray 1 paper feed jam (PFD1 not-reached jam)
		PFD1_ND1	PFD1 not-reached jam (Desk 1 feed paper)
		PFD1_ND2	PFD1 not-reached jam (Desk 2 feed paper)
		PFD1_ND3	PFD1 not-reached jam (Desk 3 feed paper)
		PFD1_NDU	PFD1 not-reached jam (Desk duplex tray feed paper)
		PFD1_NLC	PFD1 not-reached jam (LCC feed paper)
		PFD1_ST1	PFD1 remaining jam (Tray 1 feed paper)
		PFD1_SD1	PFD1 remaining jam (Desk 1 feed paper)
		PFD1_SD2	PFD1 remaining jam (Desk 2 feed paper)
		PFD1_SD3	PFD1 remaining jam (Desk 3 feed paper)
		PFD1_SDU	PFD1 remaining jam (Desk duplex tray feed paper)
Paper feed	PFD1	PFD1_SLC	PFD1 remaining jam (LCC feed paper)
		PPD1_NT1	PPD1 not-reached jam (Tray 1 feed paper)
		PPD1_ND1	PPD1 not-reached jam (Desk 1 feed paper)
		PPD1_ND2	PPD1 not-reached jam (Desk 2 feed paper)
		PPD1_ND3	PPD1 not-reached jam (Desk 3 feed paper)
		PPD1_NDU	PPD1 not-reached jam (Desk duplex tray feed paper)
	PPD1	PPD1_NLC	PPD1 not-reached jam (LCC feed paper)
		PPD1_ST1	PPD1 remaining jam (Tray 1 feed paper)
		PPD1_SD1	PPD1 remaining jam (Desk 1 feed paper)
		PPD1_SD2	PPD1 remaining jam (Desk 2 feed paper)
		PPD1_SD3	PPD1 remaining jam (Desk 3 feed paper)
		PPD1_SDU	PPD1 remaining jam (Desk duplex tray feed paper)
		PPD1_SLC	PPD1 remaining jam (LCC feed paper)
Paper feed	PPD2	BPT	Manual feed tray paper feed jam (PPD2 not-reached)
		PPD2_NT1	PPD2 not-reached jam (Tray 1 feed paper)
		PPD2_ND1	PPD2 not-reached jam (Desk 1 feed paper)
		PPD2_ND2	PPD2 not-reached jam (Desk 2 feed paper)
		PPD2_ND3	PPD2 not-reached jam (Desk 3 feed paper)
		PPD2_NDU	PPD2 not-reached jam (Desk duplex tray feed paper)
		PPD2_NLC	PPD2 not-reached jam (LCC feed paper)
		PPD2_BPT	PPD2 remaining jam (Manual paper feed tray feed paper)
		PPD2_ST1	PPD2 remaining jam (Tray 1 feed paper)
		PPD2_SD1	PPD2 remaining jam (Desk 1 feed paper)
		PPD2_SD2	PPD2 remaining jam (Desk 2 feed paper)
		PPD2_SD3	PPD2 remaining jam (Desk 3 feed paper)
		PPD2_SDU	PPD2 remaining jam (Desk duplex tray feed paper)
		PPD2_SLC	PPD2 remaining jam (LCC feed paper)
Transport system	PPD2	PPD2_PRE	PPD2 jam (Image ready signal is not supplied from PRT.)
		PPD2_PRI	PPD2 jam (Print request is not supplied from PRT.)
	BPD	BPD_N	BPD not-reached jam
		BPD_S	BPD remaining jam
	POD1	POD1_N	POD1 not-reached jam
		POD1_S	POD1 remaining jam
	POD2	POD2_N	POD2 not-reached jam
		POD2_S	POD2 remaining jam
Desk	DPPD1	DPPD1_N	Desk transport sensor 1 (DPPD1) not-reached jam
		DPPD1_S	Desk transport sensor 1 (DPPD1) remaining jam
	DPPD2	DPPD2_N	Desk transport sensor 2 (DPPD2) not-reached jam
		DPPD2_S	Desk transport sensor 2 (DPPD2) remaining jam
	DPPD3	DPPD3_N	Desk transport sensor 3 (DPPD3) not-reached jam
		DPPD3_S	Desk transport sensor 3 (DPPD3) remaining jam
LCC	LPFD	LCC	LCC paper feed jam (LPFD not-reached)
		LPFD_S	LCC unit LPFD remaining jam
Inverter	BPPD1	BPPD1_N	Reverse unit transport sensor 1 (BPPD1) not-reached jam
		BPPD1_S	Reverse unit transport sensor 1 (BPPD1) remaining jam
	BPPD2	BPPD2_N	Reverse unit transport sensor 2 (BPPD2) not-reached jam
		BPPD2_S	Reverse unit transport sensor 2(BPPD2) remaining jam
	BPPD3	BPPD3_N	Reverse unit transport sensor 3 (BPPD3) not-reached jam
		BPPD3_S	Reverse unit transport sensor 3 (BPPD3) remaining jam

Group	Sensor	Display	Comment
Inverter	BPOD	BPOD_N	Reverse unit paper exit sensor (BPOD) not-reached jam
		BPOD_S	Reverse unit paper exit sensor (BPOD) remaining jam
	BPRD	BPRD_N	Reverse unit reverse sensor (BPRD) not-reached jam
		BPRD_S	Reverse unit reverse sensor (BPRD) remaining jam
ADU	APPD1	APPD1_N	ADU transport sensor 1 (APPD1) not-reached jam
		APPD1_S	ADU transport sensor 1 (APPD1) remaining jam
	APPD2	APPD2_N	ADU transport sensor 2 (APPD2) not-reached jam
		APPD2_S	ADU transport sensor 2 (APPD2) remaining jam
	APPD3	APPD3_N	ADU transport sensor 3 (APPD3) not-reached jam
		APPD3_S	ADU transport sensor 3 (APPD3) remaining jam
Finisher	FES	FES_N	Inlet port sensor (FES) not-reached jam
		FES_S	Inlet port sensor (FES) remaining jam
	FFPS	FFPS_N	Binding position sensor (FFPS) not-reached jam
		FFPS_S	Binding position sensor (FFPS) remaining jam
	FSTPL	FSTPL	Staple (FSTPL) jam
	FPNCH	FPNCH	Punch (FPNCH) jam
	FDOP	FDOP	Door open (FDOP) jam
	FPUSH	FPUSH	Bundle roller pinching (FPUSH) jam
Sorter	SPPD	SPPD_N	Sorter transport sensor (SPPD) not-reached jam
		SPPD_S	Sorter transport sensor (SPPD) remaining jam
	SDOP	SDOP	Sorter door open (SDOP) jam



```
TEST SIMULATION NO.22 03                                   CLOSE
JAM HISTORY DATA DISP
********     ********     ********     ********
********     ********     ********     ********
********     ********     ********     ********
********     ********     ********     ********
********     ********     ********     ********
                                                             1/1
```

22 -4

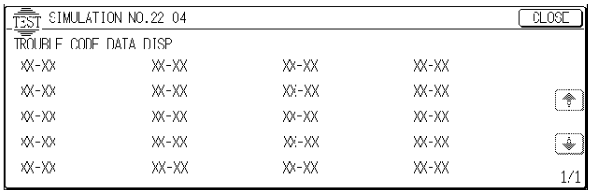
Purpose	Adjustment/Setting/Operation data output, check (display, print)
Function (Purpose)	Used to check the total trouble (self diag) history.
Item	Trouble
Operation/ Procedure	Used to display the total trouble history.

The trouble history error codes are displayed sequentially from the latest one. Max. 30 items of information can be stored, and the oldest one is deleted sequentially. The machine condition can be presumed according to this data.

(Trouble code list)

Detection models	Main code	Sub code	Content
All	C2	10	Image density sensor error/Transfer charger error (Black)
All	E7	01	Image data memory trouble
		10	Shading trouble (Black correction)
		11	Shading trouble (White correction)
		20	LED controller initial trouble (Black)
		21	LED controller initial trouble (Cyan)
		22	LED controller initial trouble (Magenta)
		23	LED controller initial trouble (Yellow)
		24	LED controller output trouble (Black)
		25	LED controller output trouble (Cyan)
		26	LED controller output trouble (Magenta)
		27	LED controller output trouble (Yellow)
		28	LED control ASIC connection abnormality
		40	Color correction data write error
		41	Color correction data transfer error
		80	ICU-SCN communication trouble
		90	ICU-PCU communication trouble
	F1	00	Finisher communication trouble (PCU detection)
		02	Finisher transport motor trouble (Finisher detection)
		03	Finisher paddle motor trouble
		06	Finisher slide motor trouble
		10	Finisher staple motor abnormality (Finisher detection)
		11	Finisher bundle process motor abnormality (Finisher detection)
		15	Finisher tray lift motor abnormality (Finisher detection)
		19	Finisher front alignment motor abnormality (Finisher detection)
		20	Finisher rear alignment motor abnormality (Finisher detection)
		31	Finisher folding sensor trouble
		32	Finisher punch unit communication trouble
		33	Finisher punch side resist motor trouble
		34	Finisher punch motor trouble
		35	Finisher punch side resist sensor trouble
		36	Finisher punch resist sensor trouble
		37	Finisher backup RAM trouble
		38	Finisher punch backup ROM trouble
		39	Finisher punch dust sensor trouble
		40	Finisher punch power off trouble
		83	Sorter push bar motor abnormality
		89	Sorter bin shift motor abnormality
		91	Paper sensor abnormality in the sorter bin
	F2	15	Drum unit initial detection trouble (Black)
		16	Drum unit initial detection trouble (Cyan)
		17	Drum unit initial detection trouble (Magenta)
		18	Drum unit initial detection trouble (Yellow)
		19	Transfer unit initial detection trouble
		39	Process thermistor trouble
		40	Toner empty sensor abnormality (Black)
		41	Toner empty sensor abnormality (Cyan)
		42	Toner empty sensor abnormality (Magenta)
		43	Toner empty sensor abnormality (Yellow)
		44	Image density sensor (for black) trouble (Transfer belt surface reflection ratio abnormality)
		45	Image density sensor (for color) trouble (Calibration plate surface reflection ratio abnormality)

Detection models	Main code	Sub code	Content
All	F2	58	Process humidity sensor trouble
		70	Developing unit improper cartridge detection (Black)
		71	Developing unit improper cartridge detection (Cyan)
		72	Developing unit improper cartridge detection (Magenta)
		73	Developing unit improper cartridge detection (Yellow)
		74	Developing unit CRUM trouble (Black)
		75	Developing unit CRUM trouble (Cyan)
		76	Developing unit CRUM trouble (Magenta)
		77	Developing unit CRUM trouble (Yellow)
		78	Registration trouble
		80	Half-tone process control 1st batch error (Black)
		81	Half-tone process control 1st batch error (Cyan)
		82	Half-tone process control 1st batch error (Magenta)
		83	Half-tone process control 1st batch error (Yellow)
		84	Half-tone process control 2nd batch error (Black)
		85	Half-tone process control2nd batch error (Cyan)
		86	Half-tone process control 2nd batch error (Magenta)
		87	Half-tone process control 2nd batch error (Yellow)
		90	Half-tone process control limit error
	F3	12	Cassette 1 lift-up trouble
	F9	00	
		01	
		03	
		20	
	H2	00	Thermistor open (HL1)
		01	Thermistor open (HL2)
	H3	00	Fusing section high temperature trouble (HL1)
		01	Fusing section high temperature trouble (HL2)
	H4	00	Fusing section low temperature trouble (HL1)
		01	Fusing section low temperature trouble (HL2)
	H5	01	3 continuous detections of POD1 not-reached jam
	H8	01	Fusing unit initial detection trouble
	L1	00	Mirror feed trouble
	L3	00	Mirror return trouble
	L4	02	Paper feed motor lock trouble
		06	Transfer belt lift motor trouble
		11	Shift motor trouble
	L8	01	No full wave signal
		02	Full wave signal width abnormality
		04	Main switch abnormality detection
	PF	00	RIM copy inhibit signal reception
	U0	00	ICU-OPE communication trouble (ICU/OPE detection)
	U1	02	RTC read trouble
All	U2	00	EEPROM read/write error (SCN detection)
		11	EEPROM check sum error (SCN detection)
		22	SRAM memory check sum error
		30	Manufacturing No. data discrepancy (ICU ⇔ PCU)
	U2	80	EEPROM read/write error (SCN detection)
		81	EEPROM check sum error (SCN detection)
		90	EEPROM read/write error (PCU detection)
		91	EEPROM check sum error (PCU detection)
	U4	02	ADU alignment plate operation abnormality
	U5	00	ADF communication trouble
		01	ADF resist sensor trouble
		02	ADF repulsion sensor trouble
		03	ADF timing sensor trouble
		11	Paper feed motor operation abnormality
	U6	00	Desk communication trouble
		01	Desk tray 1 lift motor trouble
		02	Desk tray 2 lift motor trouble
		03	Desk tray 3 lift motor trouble
		10	Desk transport motor trouble
	U7	00	RIC communication trouble



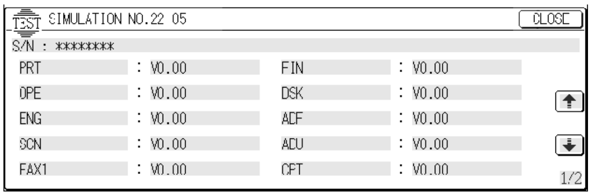
```
SIMULATION NO.22 04
TROUBLE CODE DATA DISP
XX-XX     XX-XX     XX-XX     XX-XX
XX-XX     XX-XX     XX-XX     XX-XX
XX-XX     XX-XX     XX-XX     XX-XX
XX-XX     XX-XX     XX-XX     XX-XX
XX-XX     XX-XX     XX-XX     XX-XX
```

22 -5

Purpose	Others
Function (Purpose)	Used to check the ROM version of each unit (section).
Item	Software
Operation/ Procedure	If there is any problem in the software, check the ROM version of each section with this simulation and replace with a new version if necessary.

(Sections to be displayed)

ICU	ICU control
PCU	Engine control section
SCN	Scanner control section
COL REV DATA	Color correction ROM
OPE PROG	OPE control section
PRT BOOT	PRT boot
PRT PROG	PRT control section
FAX	FAX control section
FIN-SORTER	Finisher/Sorter
PUNCH	Punch unit
DSK	Desk
LCC	Large capacity cassette
ADF	Automatic document feeder
NIC	NIC

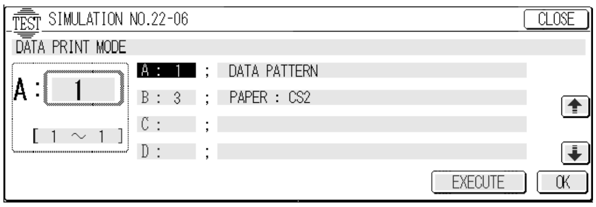


```
SIMULATION NO.22 05
S/N : ********
PRT    : V0.00    FIN  : V0.00
OPE    : V0.00    DSK  : V0.00
ENG    : V0.00    ADF  : V0.00
SCN    : V0.00    ADU  : V0.00
FAX1   : V0.00    CPT  : V0.00
```

22 -6

Purpose	Adjustment/Setting/Operation data output, check, (display, print)
Function (Purpose)	Used to print the setting and adjustment data list.
Item	Data Setting/Adjustment data
Operation/ Procedure	When installing or servicing, execute this simulation to print and store the adjustment values and setting data for use in the next servicing. (Memory trouble, PWB replacement, etc.) In this case, the print conditions can be set optionally. 1. Select the setup item. (The selected item is highlighted.) 2. Set the item and conditions with the 10-key pad. 3. Press the [EXECUTE] key to print various data.

Item	Display item		Low	High	Default	Description
A	DATA PATTERN		1	1	1	
	=1					
B	PAPER SELECT		1	6	2	Cassette selection
	=1	MANUAL				Manual paper feed
	=2	CAS1				Cassette 1
	=3	CAS2				Cassette 2
	=4	CAS3				Cassette 3
	=5	CAS4				Cassette 4
	=6	LCC				LCC



SIMULATION NO.22-06

DATA PRINT MODE

A : 1

[1 ～ 1]

A : 1 ; DATA PATTERN

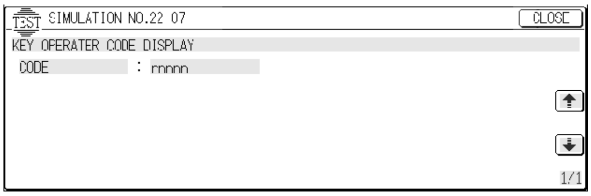
B : 3 ; PAPER : CS2

C : ;

D : ;

22 -7

Purpose	User data output/Check (Display/Print)
Function (Purpose)	Used to display the key operator code. (Used when the customer forgets the key operator code.)
Item	Data User data
Operation/ Procedure	The key operator code is displayed.



SIMULATION NO.22 07

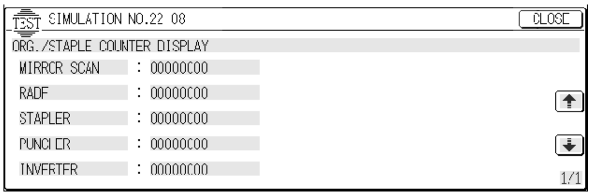
KEY OPERATER CODE DISPLAY

CODE : 00000

22 -8

Purpose	Adjustment/Setting/Operation data output, check (display, print)
Function (Purpose)	Used to check the number of uses of the staple, and the RADF.
Item	Counter
Operation/ Procedure	Various counter values are displayed. This data is used to check the use frequency of each section. According to this data, maintenance is executed. (Counter values to be displayed with this simulation)

Display	Content
MIRROR SCAN	Scan counter
RADF	ADF counter
STAPLER	Staple counter
PUNCHER	Puncher counter
INVERTER	Inverter counter



SIMULATION NO.22 08

ORG./STAPLE COUNTER DISPLAY

MIRROR SCAN : 00000000

RADF : 00000000

STAPLER : 00000000

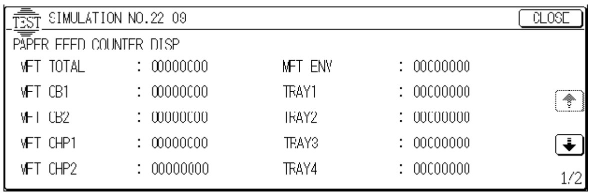
PUNCHER : 00000000

INVERTER : 00000000

22 -9

Purpose	Adjustment/Setting/Operation data output, check (display, print)
Function (Purpose)	Used to check the number of uses (print quantity) of each paper feed section.
Section	Paper feed
Item	Counter
Operation/ Procedure	The counter values are displayed. This data is used to check the use frequency of each paper feed section. According to this data, maintenance is performed. (Counter values to be displayed with this simulation)

Display	Content
MFT TOTAL	Manual paper feed (total) counter
MFT CB1	Manual paper feed (heavy paper 1) counter
MFT CB2	Manual paper feed (heavy paper 2) counter
MFT OHP1	Manual paper feed (OHP1) counter
MFT OHP2	Manual paper feed (OHP2) counter
MFT ENV	Manual paper feed (Envelope) counter
TRAY1	Tray 1 counter
TRAY2	Tray 2 counter
TRAY3	Tray 3 counter
TRAY4	Tray 4 counter
LCC	LCC counter
ADU	Duplex counter



SIMULATION NO.22 09

PAPER FEED COUNTER DISP

MFT TOTAL : 00000000 MFT ENV : 00000000

MFT CB1 : 00000000 TRAY1 : 00000000

MFT CB2 : 00000000 TRAY2 : 00000000

MFT OHP1 : 00000000 TRAY3 : 00000000

MFT OHP2 : 00000000 TRAY4 : 00000000

22 -10

Purpose	Adjustment/Setting/Operation data output, check (display, print)
Function (Purpose)	Used to check the system configuration (option, internal hardware).
Item	Specifications Option
Operation/ Procedure	The counter values are displayed.

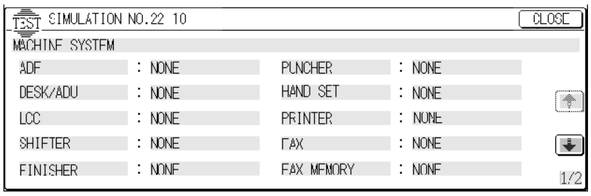
This simulation allows to check the system configuration. The devices and the option units which are installed are displayed with the model names, etc.

ADF	Automatic document feeder
DESK/ADU	Desk/Duplex unit
LCC	Large capacity cassette
INVERTER	Bypass module
FIN/SORTER	Rear process unit

PUNCHER	Punch unit
FAX	FAX
FAX MEMORY	FAX expansion memory
HAND SET	Handset
SDAM	SDRAM capacity
PRINTER	Printer
PRINTER MEMORY	Printer memory
HDD	Hard disk capacity
NIC	NIC
NETWORK SCANNER	Network scanner
FONT ROM	Kanji font

When installed: Each model name is displayed.

When not installed: "NONE" is displayed.

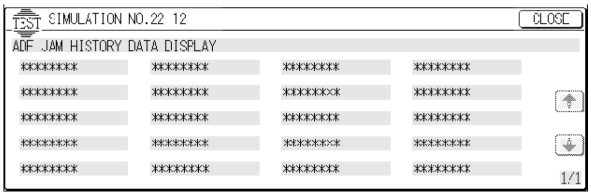


```
SIMULATION NO.22 10
MACHINE SYSTEM
ADF        : NONE        PUNCHER     : NONE
DESK/ADU   : NONE        HAND SET    : NONE
LCC        : NONE        PRINTER     : NONE
SHIFTER    : NONE        FAX         : NONE
FINISHER   : NONE        FAX MEMORY  : NONE
```

22 -12

Purpose	Adjustment/Setting/Operation data output, check (display, print)	
Function (Purpose)	Used to check the misfeed positions and the number (history) of misfeed at each position. (If the misfeed count is considerably great, it may be judged as necessary to repair.)	
Section	RADF	Option
Item	Trouble	Misfeed
Operation/ Procedure	The misfeed counter value is displayed.	

The misfeed history positions in RADF are displayed with the names of sensors and detectors from the latest one. Max. 50 items of information can be stored, and the oldest one is deleted sequentially. The machine condition can be estimated according to this data.



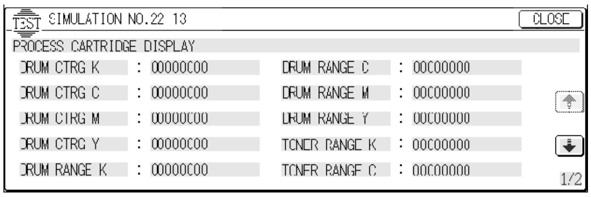
```
SIMULATION NO.22 12
ADF JAM HISTORY DATA DISPLAY
********   ********   ********   ********
********   ********   ********   ********
********   ********   ********   ********
********   ********   ********   ********
********   ********   ********   ********
```

22 -13

Purpose	Adjustment/Setting/Operation data output, check (display, print)
Function (Purpose)	Used to check the process cartridge counter. (If the count number is considerably great, it may be judged as necessary for repair.)
Section	Process section
Item	Counter
Operation/ Procedure	The process counter value of the process cartridge is displayed.

(Counter values to be displayed)

Display	Content
DRUM CTRG K	Drum cartridge print counter (K)
DRUM CTRG C	Drum cartridge print counter (C)
DRUM CTRG M	Drum cartridge print counter (M)
DRUM CTRG Y	Drum cartridge print counter (Y)
DRUM RANGE K	Drum cartridge accumulated mileage time (mm) (K)
DRUM RANGE C	Drum cartridge accumulated mileage time (mm) (C)
DRUM RANGE M	Drum cartridge accumulated mileage time (mm) (M)
DRUM RANGE Y	Drum cartridge accumulated mileage time (mm) (Y)
TONER RANGE K	Toner cartridge accumulated mileage time (mm) (K)
TONER RANGE C	Toner cartridge accumulated mileage time (mm) (C)
TONER RANGE M	Toner cartridge accumulated mileage time (mm) (M)
TONER RANGE Y	Toner cartridge accumulated mileage time (mm) (Y)



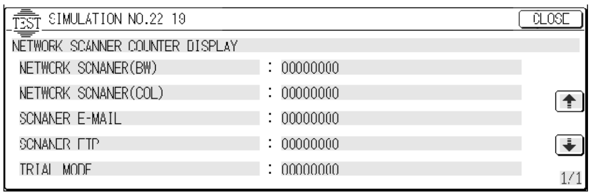
```
SIMULATION NO.22 13
PROCESS CARTRIDGE DISPLAY
DRUM CTRG K   : 00000C00     DRUM RANGE C   : 00C00000
DRUM CTRG C   : 00000C00     DRUM RANGE M   : 00C00000
DRUM CTRG M   : 00000C00     DRUM RANGE Y   : 00C00000
DRUM CTRG Y   : 00000C00     TONER RANGE K  : 00C00000
DRUM RANGE K  : 00000C00     TONER RANGE C  : 00C00000
```

22 -19

Purpose	Adjustment/Setting/Operation data output, check (display, print)
Function (Purpose)	Used to check the counters related to the network scanner.
Section	Network scanner
Item	Counter
Operation/ Procedure	The counter values related to the network scanner are displayed.

(Counter values to be displayed)

Display	Content
NETWORK SCANNER (BW)	Network scanner document scan number counter (B/W)
NETWORK SCANNER (COL)	Network scanner document scan number counter (Color)
SCANNER E-MAIL	Scanner e-mail transmit counter
SCANNER FTP	Scanner FTP transmit counter
TRIAL MODE	Trial mode counter



```
SIMULATION NO.22 19
NETWORK SCANNER COUNTER DISPLAY
NETWORK SCNANER(BW)    : 00000000
NETWORK SCNANER(COL)   : 00000000
SCNANER E-MAIL         : 00000000
SCNANER FTP            : 00000000
TRIAL MODE             : 00000000
```

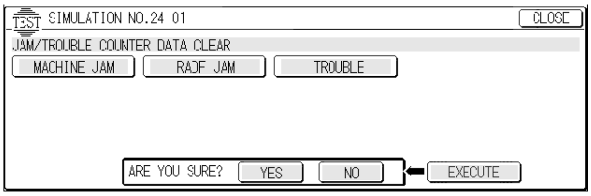
24

24 -1

Purpose	Data clear
Function (Purpose)	Used to clear the misfeed counter, the misfeed history, the trouble counter, and the trouble history. (After completion of maintenance, the counters are cleared.)
Section	Memory
Item	Counter
Operation/ Procedure	1. Select the counter to be cleared. 2. Press the [EXECUTE] key. The display for reconfirmation to clear is shown. 3. Select YES or NO to clear the counter. YES: Clear NO: Not clear

(Counter to be cleared)

Display	Content
MACHINE JAM	Machine JAM counter
RADF JAM	ADF JAM counter
TROUBLE	Trouble counter


TEST
CLOSE
MACHINE JAM
RADF JAM
TROUBLE
YES
NO
EXECUTE

SIMULATION NO.24 01

JAM/TROUBLE COUNTER DATA CLEAR

ARE YOU SURE?

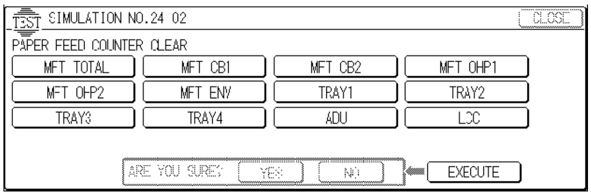
24 -2

Purpose	Data clear
Function (Purpose)	Used to clear the data of the number of uses (print quantity) of each paper feed section.
Section	Paper feed
Item	Counter Paper feed unit
Operation/ Procedure	1. Select the counter to be cleared. (The selected key highlighted.) 2. Press the [EXECUTE] key. The display for reconfirmation to clear is shown. 3. Select YES or NO to clear the counter. YES: Clear NO: Not clear

After completion of maintenance, the following counters are cleared.

(Counters to be cleared)

MFT TOTAL	Manual paper feed (total) counter
MFT CB1	Manual paper feed (heavy paper 1) counter
MFT CB2	Manual paper feed (heavy paper 2) counter
MFT OHP1	Manual paper feed (OHP1) counter
MFT OHP2	Manual paper feed (OHP2) counter
MFT ENV	Manual paper feed (Envelope) counter
TRAY1	Tray 1 counter
TRAY2	Tray 2 counter
TRAY3	Tray 3 counter
TRAY4	Tray 4 counter
ADU	Duplex unit counter
LCC	Large capacity tray counter


TEST
CLOSE
MFT TOTAL
MFT CB1
MFT CB2
MFT OHP1
MFT OHP2
MFT ENV
TRAY1
TRAY2
TRAY3
TRAY4
ADU
LCC
YES
NO
EXECUTE

SIMULATION NO.24 02

PAPER FEED COUNTER CLEAR

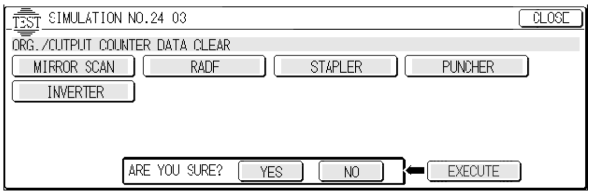
ARE YOU SURE?

24 -3

Purpose	Data clear
Function (Purpose)	Used to clear the use number data of the staple, the RADF, and the scanner.
Section	Transport/Finisher
Item	Counter
Operation/ Procedure	1. Select the counter to be cleared. (The selected key highlighted.) 2. Press the [EXECUTE] key. The display for reconfirmation to clear is shown. 3. Select YES or NO to clear the counter. YES: Clear NO: Not clear

(Counters to be cleared)

Display	Content
MIRROR SCAN	Scan counter
RADF	ADF counter
STAPLER	Staple counter
PUNCHER	Puncher counter
INVERTER	Inverter counter


TEST
CLOSE
MIRROR SCAN
RADF
STAPLER
PUNCHER
INVERTER
YES
NO
EXECUTE

SIMULATION NO.24 03

ORG./OUTPUT COUNTER DATA CLEAR

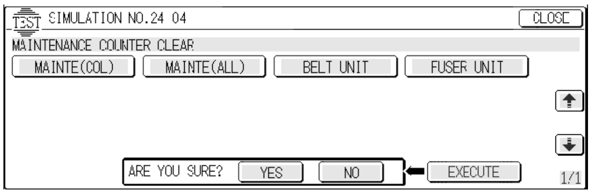
ARE YOU SURE?

24 -4

Purpose	Data clear
Function (Purpose)	Used to reset the maintenance counter.
Item	Counter Maintenance
Operation/ Procedure	1. Press the [EXECUTE] key. The display for reconfirmation to clear is shown. 2. Select YES or NO to clear the counter. YES: Clear NO: Not clear

(Counters to be cleared)

MAINTE (COL)	Maintenance counter (Color)
MAINTE (ALL)	Maintenance counter (Total)
BELT UNIT	Transfer unit print counter
FUSER UNIT	Fusing unit print counter


TEST
CLOSE
MAINTE(COL)
MAINTE(ALL)
BELT UNIT
FUSER UNIT
YES
NO
EXECUTE
1/1

SIMULATION NO.24 04

MAINTENANCE COUNTER CLEAR

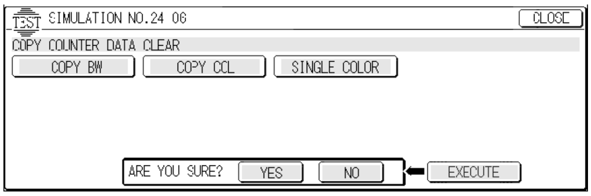
ARE YOU SURE?

24 -6

Purpose	Data clear
Function (Purpose)	Used to clear the counters.
Item	Counter
Operation/ Procedure	1. Select the counter to be cleared. 2. Press the [EXECUTE] key. The display for reconfirmation to clear is shown. 3. Select YES or NO to clear the counter. YES: Clear NO: Not clear

(Counters to be cleared)

Display	Content
COPY BW	Copier (B/W) counter
COPY COL	Copier (Color) counter
SINGLE COLOR	Single color


TEST
CLOSE
COPY BW
COPY COL
SINGLE COLOR
YES
NO
EXECUTE

SIMULATION NO.24 06

COPY COUNTER DATA CLEAR

ARE YOU SURE?

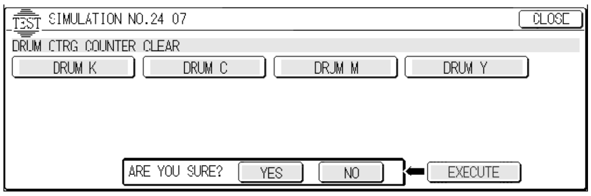
24 -7

Purpose	Data clear	
Function (Purpose)	Used to clear the OPC drum (membrane decrease) correction counter. (This simulation is performed with the OPC drum is replaced.)	
Section	Process (Photoconductor, developing, transfer, cleaning)	Photoconductor
Item	Counter	Photoconductor
Operation/ Procedure	1. Select the counter to be cleared. 2. Press the [EXECUTE] key. The display for reconfirmation to clear is shown. Select YES or NO to clear the counter. YES: Clear NO: Not clear	

After replacement of the OPC drum, the following counters are cleared.

(Counters to be cleared)

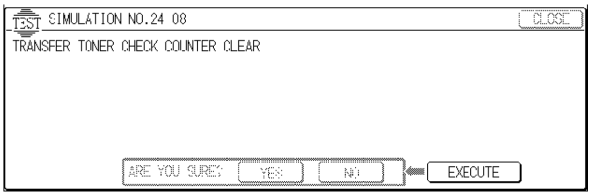
Display	Content
DRUM CTRG K	Drum cartridge (K)
DRUM CTRG C	Drum cartridge (C)
DRUM CTRG M	Drum cartridge (M)
DRUM CTRG Y	Drum cartridge (Y)


TEST
SIMULATION NO.24 07
CLOSE
DRUM CTRG COUNTER CLEAR
DRUM K
DRUM C
DRUM M
DRUM Y
ARE YOU SURE?
YES
NO
EXECUTE

24 -8

Purpose	Data clear	
Function (Purpose)	Used to clear the waste toner counter in the transfer section.	
Section	Process (Photoconductor, developing, transfer, cleaning)	Transfer
Item	Counter	
Operation/ Procedure	1. Press the [EXECUTE] key. The display for reconfirmation to clear is shown. 2. Select YES or NO to clear the counter. YES: Clear NO: Not clear	

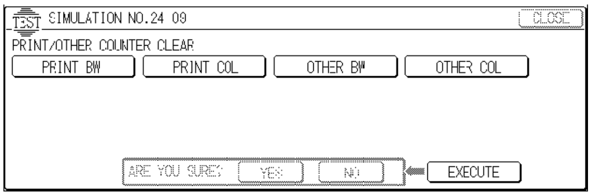
After removing waste toner from the transfer section, the counter is cleared.


TEST
SIMULATION NO.24 08
CLOSE
TRANSFER TONER CHECK COUNTER CLEAR
ARE YOU SURE?
YES
NO
EXECUTE

24 -9

Purpose	Data clear	
Function (Purpose)	Used to clear the printer mode counter and the self-print mode print counter. (After completion of maintenance, the counters are cleared.)	
Section	Printer	
Item	Counter	Printer
Operation/ Procedure	1. Select the counter to be cleared. 2. Press the [EXECUTE] key. The display for reconfirmation to clear is shown. 3. Select YES or NO to clear the counter. YES: Clear NO: Not clear	

PRINT BW	Printer mode print counter (B/W)
PRINT COL	Printer mode print counter (Color)
OTHER BW	Self print mode print counter (B/W)
OTHER COL	Self print mode print counter (Color)

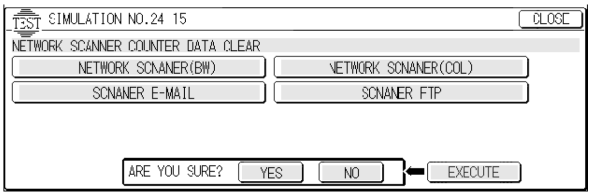

TEST
SIMULATION NO.24 09
CLOSE
PRINT/OTHER COUNTER CLEAR
PRINT BW
PRINT COL
OTHER BW
OTHER COL
ARE YOU SURE?
YES
NO
EXECUTE

24 -15

Purpose	Data clear
Function (Purpose)	Used to clear the network scanner counter.
Section	Scanner section
Item	Counter
Operation/ Procedure	1. Select the counter to be cleared. 2. Press the [EXECUTE] key. The display for reconfirmation to clear is shown. 3. Select YES or NO to clear the counter. YES: Clear NO: Not clear

(Counters to be cleared)

NETWORK SCANNER (BW)	Network scanner document scan quantity counter (B/W)
NETWORK SCANNER (COL)	Network scanner document scan quantity counter (Color)
SCANNER E-MAIL	Scanner e-mail send counter
SCANNER FTP	Scanner FTP send counter

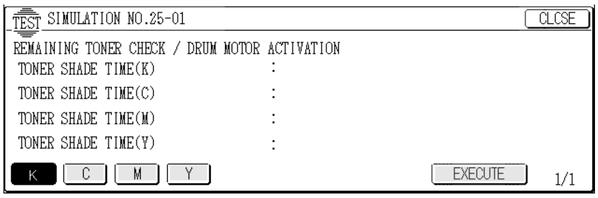

TEST
SIMULATION NO.24 15
CLOSE
NETWORK SCANNER COUNTER DATA CLEAR
NETWORK SCNANER(BW)
NETWORK SCNANER(COL)
SCNANER E-MAIL
SCNANER FTP
ARE YOU SURE?
YES
NO
EXECUTE

25

25 -1

Purpose	Operation test/check
Function (Purpose)	Used to check the operation of the process section (excluding the image process section) and the toner remaining quantity sensor. (The toner remaining quantity sensor output can be monitored.)
Section	Process (Photoconductor, developing, transfer, cleaning)
Item	Operation
Operation/ Procedure	1. Select the color to check the toner remaining quantity. 2. Press the [EXECUTE] key. The selected toner key is highlighted, and all the drum motors rotate (117m/s), and the specified toner remaining quantity sensor level is displayed. After 10min, the motors stop, and the [EXECUTE] key returns to the normal display.

When the [EXECUTE] key is pressed during rotation of the motors, the motors will stop and the [EXECUTE] key will return to the normal display.



REMAINING TONER CHECK / DRUM MOTOR ACTIVATION
TONER SHADE TIME(K) :
TONER SHADE TIME(C) :
TONER SHADE TIME(M) :
TONER SHADE TIME(Y) :

26

26 -2

Purpose	Setting
Function (Purpose)	1. Used to set the paper size of the large capacity tray. (When the paper size is changed, the software setup must be changed accordingly with this simulation.) 2. Used to detect 8.5 " x 13" (INCH Series) paper or documents and to set the display mode. (All paper feed modes) 3. Used to set the display form of the paper kind in the manual paper feed mode.
Section	Paper feed
Item	Specifications
Operation/ Procedure	1. Used to set the paper size of the large capacity tray. 2. Used to set to allow 8.5" x 13" size paper to be treated as a selectable size. 3. Used to set the paper kind display mode in the manual paper feed mode. * Documents or paper of 8.5" x 13" are treated as a selectable size.

(Selection item)

	Used unit		Destination	Set value	
				0 (Default) (Disable)	1 (Enable)
Document	AR-RF2		Japan	A4R	A4R *5
			AB series (SUK/SEEG)	A4R	A4R *5
			AB series (SCA/Others)	A4R	8.5" x 13" *3
			Inch series (SEC/SECL)	8.5" x 14"	8.5" x 14" *5
			Inch series (Others)	8.5" x 14"	8.5" x 13" *1
	Document table		Japan/EX Japan AB series	B4	8.5" x 13" *2
			Inch series	8.5" x 14"	8.5" x 13" *1
Paper	Machine	Manual paper feed tray	All destinations	8.5" x 14"	8.5" x 13" *4
		Paper feed tray	All destinations	–*6	
	AR-LC5 (LCC)		All destinations	–	

*1: An original of 8.5" x 14" is detected as 8.5" x 13".

*2: An original of B4 size is detected as 8.5" x 13".

*3: An original of A4R size is detected as 8.5" x 13".

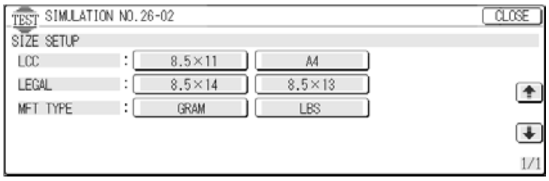
*4: An original of 8.5" x 14" is detected as 8.5" x 13".

*5: Applicable by replacing the AR-RF2 original tray.

*6: Can be set with the key operator program.

*7: Determined by the paper type of the destination.

Item	Set value	Content
LCC	0	No size specified (Default)
	1	8.5 x 11
	2	A4
Legal (Inch series) *7	0	8.5 x 14 (Default)
	1	8.5 x 13
Legal (AB series) *7	0	B4 (Default)
	1	8.5 x 13



LCC : 8.5×11 A4
LEGAL : 8.5×14 8.5×13
MFT TYPE : GRAM LBS

26 -3

Purpose	Setting
Function (Purpose)	Used to set the auditor specification mode. Setting must be made according to the use conditions of the auditor.
Section	Auditor
Item	Specifications
Operation/ Procedure	Enter the code number corresponding to the auditor specification mode.

Mode	Content
[P10]	Built-in auditor mode
[AR-EC1]	Card counter mode (only Japan)
[MODE1]	Coin vendor mode 1
[MODE2]	Coin vendor mode 2
[MODE3]	Coin vendor mode 3

[Copy vendor mode]

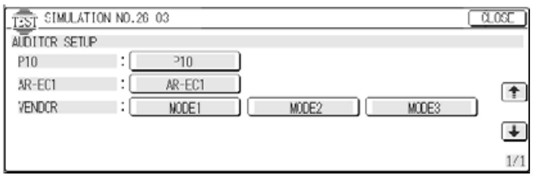
Diag setting	Specified number completed with money left	Lack of money during a copy job		Specified number completed with no money left
		BW/Color (with no money left)	Color (with money left)	
	Case 1	Case 2	Case 3	Case 4
26-3=3 MODE1	Operation 1	Operation 2	Operation 2	Operation 1
26-3=4 MODE2	Operation 1	Operation 1	Operation 2	Operation 1
26-3=5 MODE3	Operation 1	Operation 3	Operation 2	Operation 3

Operation 1: The set status remains until the auto clear set time has passed. (Default: 60sec Changeable with key operations.)

Operation 2: Auto clear is not made.

Operation 3: Setting is immediately cleared, and the display returns to the standby menu.

Case 1/Case 2 (with money left): B/W copy is allowed. If, however, charge money fro color copy is exhausted during a color copy job, when sufficient money for the job is supplied, only the color start key of the READY lamp lights up.

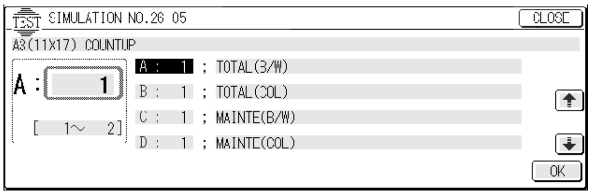


P10 : P10
AR-EC1 : AR-EC1
VENDOR : MODE1 MODE2 MODE3

26 -5

Purpose	Setting
Function (Purpose)	Used to set the count mode of the total counter and the maintenance counter.
Item	Specifications Counter
Operation/ Procedure	Used to set the single count-up or double count-up for the total counter, the maintenance counter, and the developer counter when printing is performed with A3, 11 x 17" paper. 1. Select the kind of the counter with the scroll key. 2. Enter "1" or "2" with the 10-key pad and press the [OK] key.

	Item	Content	Set range	Default
A	TOTAL(B/W)	Total counter (B/W)	1 – 2	2
B	TOTAL(COL)	Total counter (Color)	1 – 2	2
C	MAINTE(B/W)	Maintenance (B/W)	1 – 2	2
D	MAINTE(COL)	Maintenance (Color)	1 – 2	2



SIMULATION NO.26 05

A3(11X17) COUNTUP

A : 1

[1～ 2]

A : 1 ; TOTAL(3/W)

B : 1 ; TOTAL(COL)

C : 1 ; MAINTE(B/W)

D : 1 ; MAINTE(COL)

26 -6

Purpose	Setting
Function (Purpose)	Used to set the destination specifications (paper, fixed copy magnification ratios, image (process) correction, machine operation in case of an error, etc.).
Item	Specifications Destination
Operation/ Procedure	The current destination is highlighted. Select a desired destination.

(Destinations to be selected)

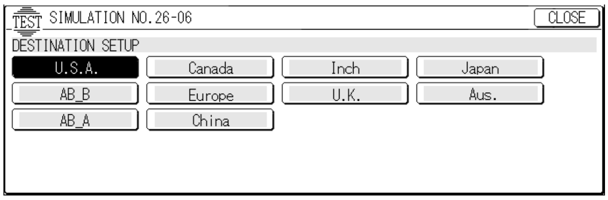
Destination	
U.S.A.	United States of America
Canada	Canada
Inch	Inch series, other destinations
Japan	Japan
AB_B	AB series (B5 detection), other destinations
Europe	Europe
U.K.	United Kingdom
Aus.	Australia
AB_A	AB series (A5 detection), other destinations
China	China

SIM No.	Content	U.S.A	Canada	Inch	Japan	AB_B
SIM26-02	Manual feed paper kind display	1 (LBS)	1 (LBS)	1 (LBS)	0 (GRAM)	0 (GRAM)
SIM26-02	Legal set value	0 (8.5 x 14)	0 (8.5 x 14)	0 (8.5 x 14)	0 (8.5 x 14)	0 (8.5 x 14)
SIM26-41	Center binding AMS setting	0 (No support)	0 (No support)	0 (No support)	0 (No support)	0 (No support)
SIM26-52	White paper exit count-up setting	1 (Counts up.)	1 (Counts up.)	1 (Counts up.)	0 (No counts)	1 (Counts up.)
SIM46-19	B/W auto exposure mode setting	2 (EX Japan)	2 (EX Japan)	2 (EX Japan)	1 (Japan)	2 (EX Japan)
SIM43-01A	Normal paper HL1 control temperature	175	175	175	170	170
SIM43-01B	Normal paper HL2 control temperature	140	140	140	140	140
SIM43-01C	HL1 control temperature in the ready state	170	170	170	165	165
SIM43-01F	Heavy motor 1 HL2 control temperature	136	136	136	135	135
SIM43-01Q	Fusing motor rotation start temperature in warming up	155	155	155	155	155
Key operation	Language setting	0 x 50	0 x 50	0 x 5c	0 x 51	0 x 5c
Key operation	LCC size setting	1 (8.5 x 11)	1 (8.5 x 11)	1 (8.5 x 11)	2 (A4)	2 (A4)
Key operation	Manual feed size setting	1 (8.5 x 11)	1 (8.5 x 11)	1 (8.5 x 11)	2 (A4)	2 (A4)
Key operation	Document detection setting	1 (INCH_1)	1 (INCH_1)	1 (INCH_1)	3 (AB_1)	3 (AB_1)
Key operation	Auto summer time setting	0 (Disable)	0 (Disable)	0 (Disable)	0 (Disable)	0 (Disable)
Key operation	Tray 1 special size	8.5 x 11	8.5 x 11	8.5 x 11	A4	A4
Key operation	Tray 2 special size	8.5 x 11	8.5 x 11	8.5 x 11	A4	A4
Key operation	Tray 3 special size	8.5 x 11	8.5 x 11	8.5 x 11	A4	A4
Key operation	Tray 4 special size	8.5 x 11	8.5 x 11	8.5 x 11	A4	A4

SIM No.	Content	Europe	U.K.	Aus.	AB_A	China
SIM26-02	Manual feed paper kind display	0 (GRAM)	0 (GRAM)	0 (GRAM)	0 (GRAM)	0 (GRAM)
SIM26-02	Legal set value	0 (8.5x14)	0 (8.5x14)	1 (8.5x13)	0 (8.5x14)	0 (8.5x14)
SIM26-41	Center binding AMS setting	1 (AMS setting)	1 (AMS setting)	0 (Disable)	0 (Disable)	0 (Disable)
SIM26-52	B/W paper exit count-up setting	1 (Counts up.)	1 (Counts up.)	0 (No counts)	1 (Counts up.)	1 (Counts up.)
SIM43-01A	Normal paper HL1 control temperature	175	175	175	175	175
SIM43-01B	Normal paper HL2 control temperature	140	140	140	140	140
SIM43-01C	HL1 control temperature in the ready state	170	170	170	170	170
SIM43-01F	Heavy paper 1 HL2 control temperature	136	136	136	136	136
SIM43-01Q	Fusing motor rotation start temperature in warming up	155	155	155	155	155

SIM No.	Content	Europe	U.K.	Aus.	AB_A	China
SIM46-19	B/W auto exposure mode setting	2 (EX Japan)	2 (EX Japan)	2 (EX Japan)	2 (EX Japan)	2 (EX Japan)
Key operation	Language setting	0x5c	0x5c	0x5c	0x5c	0x5b
Key operation	LCC size detection	2 (A4)	2 (A4)	2 (A4)	2 (A4)	2 (A4)
Key operation	Manual fee size setting	2 (A4)	2 (A4)	2 (A4)	2 (A4)	2 (A4)
Key operation	Document detection setting	3 (AB_1)	3 (AB_1)	4 (AB_2)	3 (AB_1)	3 (AB_1)
Key operation	Auto summer time setting	1 (Enable)	0 (Disable)	1 (Enable)	0 (Disable)	0 (Disable)
Key operation	Tray 1 special size	A4	A4	A4	A4	A4
Key operation	Tray 2 special size	A4	A4	A4	A4	A4
Key operation	Tray 3 special size	A4	A4	A4	A4	A4
Key operation	Tray 4 special size	A4	A4	A4	A4	A4

Language setup: 0x50 American English, 0x51 Japanese, 0x5c Chinese

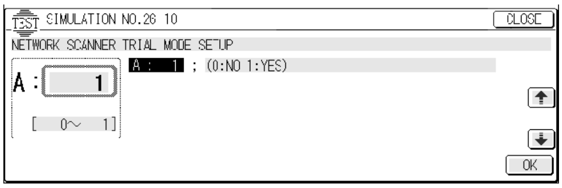


26 -10

Purpose	Setting
Function (Purpose)	Used to set the trial mode of the network scanner.
Section	Scanner
Item	Specifications
Operation/ Procedure	1. Set ON/OFF of the trial mode with the 10-key pad, and press the [OK] key. * The B/W start key or the color start key can be used instead of the [OK] key in the above procedure.

(Trial mode setting)

Item	Content	Set range	Default
A	Trial mode setting	0: NO 1: YES	0



A : 1 ; (0:NO 1:YES)

A : 1

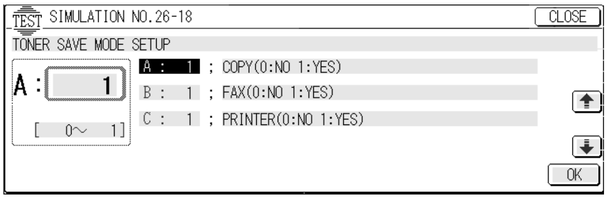
[0～ 1]

26 -18

Purpose	Setting
Function (Purpose)	Used to set YES/NO of toner save operation. (This simulation is Enable only for Japan and UK versions. It depends on SIM 26-6 (Destination) setting. For the other destinations, the same setting can be made by the user program P22. (Effective only in the monochrome copy mode)
Item	Specifications Operation mode (Common)
Operation/ Procedure	Enter the code number corresponding to the condition (the toner save YES/NO) with the 10-key and press the [OK] Key.

(Toner save mode setting)

Item		Content	Set range	Default
A	COPY (0:NO 1:YES)	Copy mode toner save mode inhibit	0:NO 1:YES	0
B	FAX (0:NO 1:YES)	FAX mode toner save mode inhibit	0:NO 1:YES	0
C	PRINTER (0:NO 1:YES)	Printer mode toner save mode inhibit	0:NO 1:YES	0



A : 1 ; COPY(0:NO 1:YES)
B : 1 ; FAX(0:NO 1:YES)
C : 1 ; PRINTER(0:NO 1:YES)

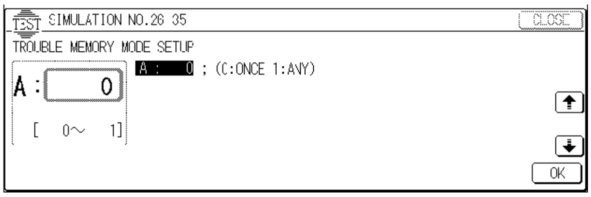
A : 1

[0～ 1]

26 -35

Purpose	Setting
Function (Purpose)	Used to set whether the trouble history display by SIM 22-4 is displayed as one trouble or as the accumulated number of continuous troubles when two or more troubles of same kind occur continuously.
Item	Specifications
Operation/ Procedure	Used to set whether the trouble history display by SIM 22-4 is displayed as one trouble or as the accumulated number of continuous troubles when two or more troubles of same kind occur continuously. 1. Select the number corresponding to the display mode with the 10-key and press the [OK] key.

Item	Set value	Default
The trouble history display by SIM 22-4 is displayed as it is when two or more troubles occur continuously.	1	0
The trouble history display by SIM 22-4 is displayed as one trouble when two or more troubles occur continuously.	0	



A : 0 ; (C:ONCE 1:ANY)

A : 0

[0～ 1]

26 -38

Purpose	Setting
Function (Purpose)	Used to set "Continue/Stop" of printing when the maintenance timing (replacement timing of each consumable part) is reached.
Item	Specifications
Operation/ Procedure	When the maintenance timing (replacement timing of each consumable part) is reached, set "Continue/Stop" of printing by entering the code number with the 10-key, referring to the table below. Then press the [OK] key.

[Target item]

- ∗ Maintenance preset counter (Depending on the set value of SIM21-1.)
- ∗ Consumable part replacement timing

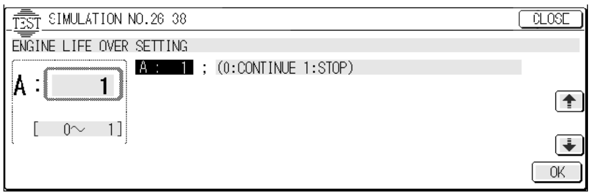
Transfer belt (Depending on the set value of SIM21-1.)

Fusing unit (Depending on the set value of SIM21-1.)

OPC drum

When the toner cartridge is emptied, printing is stopped regardless of this setup.

Item		Content	Set value		Default
A	(0:CONTINUE 1:STOP)	Used to set "Continue/Stop" of printing when the maintenance timing (replacement timing of each consumable part) is reached.	0	Continues printing.	0
			1	Stops printing.	


SIMULATION NO.26 38

ENGINE LIFE OVER SETTING

A : 1 ; (0:CONTINUE 1:STOP)

A : 1

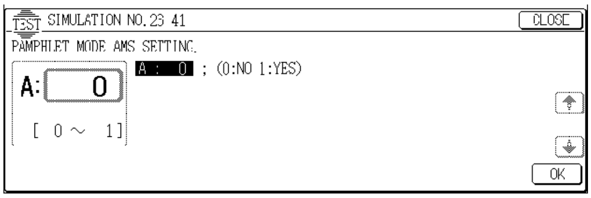
[0~ 1]

26 -41

Purpose	Setting
Function (Purpose)	Used to set Enable/Disable of AMS operation in the center-binding mode.
Item	Specifications
Operation/ Procedure	Enter the corresponding code of Enable/Disable of AMS operation in the center-binding mode with the 10-key pad, and press the [OK] key. ∗ The B/W start key or the color start key cans be used instead of the [OK] key in the above procedure.

(Setting of AMS in the center binding mode)

Item		Content	Set value		Default
A	(0:NO 1:YES)	Setting of AMS operation in the center binding mode	0	AMS operation is disabled.	1: Europe and UK 0: Others
			1	AMS operation is enabled.	


SIMULATION NO.23 41

PAMPHLET MODE AMS SETTING

A : 0 ; (0:NO 1:YES)

A: 0

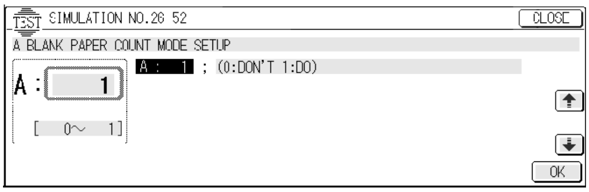
[0 ~ 1]

26 -52

Purpose	Setting
Function (Purpose)	Used to set YES/NO of count up of non-copy paper (cover or insertion paper).
Item	Specifications Operation mode
Operation/ Procedure	1. Enter the set value corresponding to the operation mode with the 10-key. 2. Press the [OK] key. ∗ The B/W start key or the color start key can be used instead of the [OK] key in the above procedure.

(B/W count up setting)

Item		Content	Set value		Default
A	(0:DON'T 1:DO)	Non-copy paper count-up setting	0	Not count up.	1: Other countries 0: Japan/ Australia
			1	Counts up.	


SIMULATION NO.26 52

A BLANK PAPER COUNT MODE SETUP

A : 1 ; (0:DON'T 1:DO)

A : 1

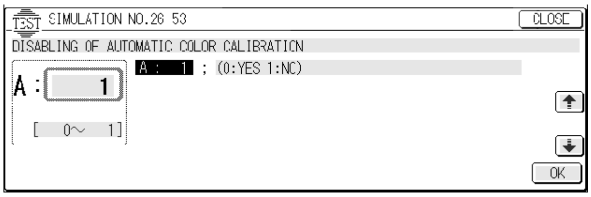
[0~ 1]

26 -53

Purpose	Setting
Function (Purpose)	Used by the user to set Enable/Disable auto color calibration (auto adjustment of color balance and density)
Item	Specifications Operation mode
Operation/ Procedure	1. Select Enable or Disable with the 10-key. Disable 0: YES Enable 1: NO 2. Press the [OK] key.

Set value	Content	Default
0	Disable auto color calibration (automatic adjustment of copy color balance and density)	1
1	Enable auto color calibration (automatic adjustment of copy color balance and density)	

When "Disable" is selected, the user program does not show the menu of the user auto color calibration (automatic adjustment of copy color balance and density).


SIMULATION NO.26 53

DISABLING OF AUTOMATIC COLOR CALIBRATION

A : 1 ; (0:YES 1:NO)

A : 1

[0~ 1]

26 -57

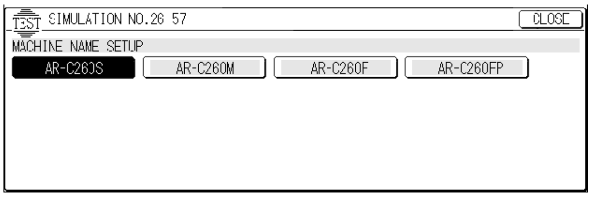
Purpose	Setting
Function (Purpose)	Used to set the model name for use as the status information.
Item	Specifications
Operation/ Procedure	Press the corresponding key to the model name, and the model name is set and the selected key is highlighted. The model name information set in this simulation is used in the RIC/MIB system.

(For Japan)

Model	
AR-C260S	Copier model
AR-C260M	Copier/printer model
AR-C260F	Copier/FAX model
AR-C260FP	Copier/FAX/printer model

(When the destination is outside of Japan)

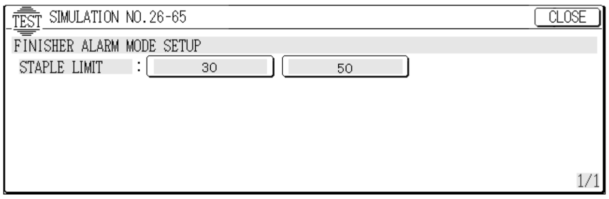
Model	
AR-C260	Copier model
AR-C260M	Copier/printer model


TEST SIMULATION NO.26 57
CLOSE
MACHINE NAME SETUP
AR-C260S
AR-C260M
AR-C260F
AR-C260FP

26 -65

Purpose	Setting
Function (Purpose)	Used to set the finisher alarm mode.
Item	Specifications
Operation/ Procedure	Press the key which shows the staple limit quantity. The entered number is set and the pressed key is highlighted.

Item	Content	Set value		Default
STAPLE LIMIT	Staple limit quantity	30	Staple limit quantity: 30	30
		50	Staple limit quantity: 50	


TEST SIMULATION NO.26-65
CLOSE
FINISHER ALARM MODE SETUP
STAPLE LIMIT :
30
50
1/1

27

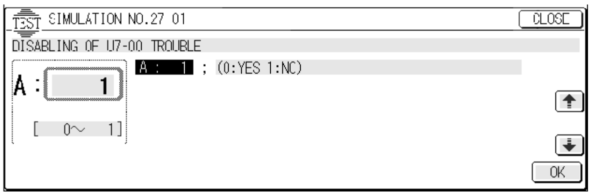
27 -1

Purpose	Operation test/check
Function (Purpose)	Used to set the specifications for operations in case of communication trouble between the host computer and MODEM (machine side). (When communication trouble occurs between the host computer MODEM and the machine, the self diag display (U7-00) is printed and setting for inhibition of print or not is made.)
Section	Communication (RIC/MODEM)
Item	Specifications Operation mode (Common)
Operation/ Procedure	Enter the code number corresponding to the operation mode with the 10-key and press the [OK] key. Used to set Enable/Disable of U7-00 trouble detection.

Set value	Set content	Default
0	U7-00 trouble detection is made. (Default)	0
1	U7-00 trouble detection is not made.	

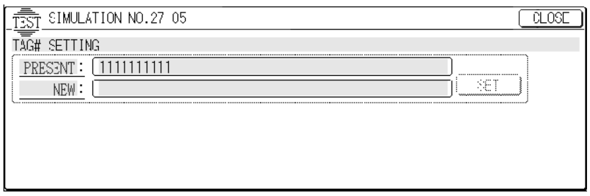
0: Though a communication trouble occurs between the host computer and the MODEM (machine side), the machine is not affected.

1: When a communication trouble occurs between the host computer and the MODEM (machine side), the self diag display (U7-00) is displayed.


TEST SIMULATION NO.27 01
CLOSE
DISABLING OF U7-00 TROUBLE
A : 1 ; (0:YES 1:NC)
A : 1
[0~ 1]
OK

27 -5

Purpose	Setting
Function (Purpose)	Used to enter the machine tag No. (This function allows to check the tag No. of the machine with the host computer.)
Section	Communication (RIC/MODEM)
Item	Data User data
Operation/ Procedure	1. When entering the tag No. newly or changing the tag No., enter the value (max. 8 digits) with the 10-key. The entered number is displayed in the column of "NEW" 2. Press the [SET] key. The new tag No. entered in procedure 1 is set. It is advisable to enter the machine's serial No. for machine management and servicing.

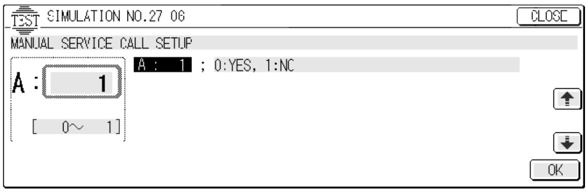

TEST SIMULATION NO.27 05
CLOSE
TAG# SETTING
PRESENT: 1111111111
NEW:
SET

Note: To perform this setting, the host computer and the machine must be connected through MODEM.

27 -6

Purpose	Setting
Function (Purpose)	Used to set ON/OFF of service call sending to the service center by use of RIC when trouble occurred in the machine. (The service call is not sent automatically, but sent manually.)
Section	Communication (RIC/MODEM)
Item	Specifications Others
Operation/ Procedure	Enter the value corresponding to the set content and press the [OK] key. Manual service call Enable/Disable setting can be made.

Set value	Set content	Default
0	Manual service call is allowed. (Default)	0
1	Manual service call is inhibited.	


TEST SIMULATION NO.27 06
CLOSE
MANUAL SERVICE CALL SETUP
A : 1 ; 0:YES, 1:NC
A : 1
[0~ 1]
OK

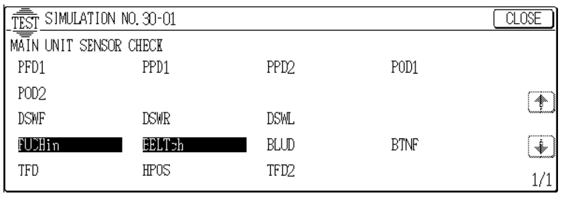
30

30 -1

Purpose	Operation test/check
Function (Purpose)	Used to check the operation of sensors and detectors in the paper feed, paper transport, paper exit sections and the related circuits.
Item	Operation
Operation/ Procedure	The active sensors and detectors are highlighted.

(Sensors to be checked)

Sensor name	Content
PFD1	Paper feed detection 1 (Tray 1)
PPD1	Transport detection 1
PPD2	Transport detection 2
POD1	Paper exit detection 1
POD2	Paper exit detection 2 (Top tray paper exit)
DSWF	Front door switch
DSWR	Right door switch
DSWL	Left door switch
FUCHin	Fusing installation detection
BELTch	Belt unit installation detection
BLUD	Belt unit upper limit detection
BTNF	Belt waste toner full detection
TFD	Side tray paper full detection
HPOS	Shifter home position detection
TFD2	Top tray paper full detection

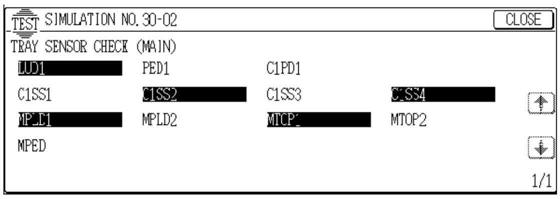

TEST
SIMULATION NO.30-01
CLOSE
MAIN UNIT SENSOR CHECK
PFD1
PPD1
PPD2
POD1
POD2
DSWF
DSWR
DSWL
FUCHin
BELTch
BLUD
BTNF
TFD
HPOS
TFD2
1/1

30 -2

Purpose	Operation test/check
Function (Purpose)	Used to check the operation of sensors and detectors in the paper feed section and the related circuits. (The operation of the paper feed sensors and detectors can be monitored with the LCD display.)
Section	Paper feed
Item	Operation
Operation/ Procedure	The active sensors and detectors are highlighted.

(Sensors to be checked)

Sensor name	Content
LUD1	Paper feed tray upper limit detection (Tray 1)
PED1	Paper feed tray paper empty detection (Tray 1)
C1PD1	Paper feed tray remaining paper quantity detection (Tray 1)
C1SS1	Paper feed tray size detection 1 (Tray 1)
C1SS2	Paper feed tray size detection 2 (Tray 1)
C1SS3	Paper feed tray size detection 3 (Tray 1)
C1SS4	Paper feed tray size detection 4 (Tray 1)
MPLD1	Manual feed size length detection 1
MPLD2	Manual feed size length detection 2
MTOP1	Manual feed tray pull-out detection 1
MTOP2	Manual feed tray pull-out detection 2
MPED	Manual feed tray paper empty detection


TEST
SIMULATION NO.30-02
CLOSE
TRAY SENSOR CHECK (MAIN)
LUD1
PED1
C1PD1
C1SS1
C1SS2
C1SS3
C1SS4
MPLD1
MPLD2
MTOP1
MTOP2
MPED
1/1

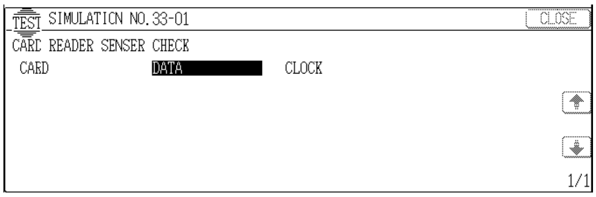
33

33 -1

Purpose	Operation test/check
Function (Purpose)	Used to check the operation of the card reader and the sensors and the related circuits. (The card reader sensor operation can be monitored with the LCD display.)
Section	Others
Item	Operation
Operation/ Procedure	Active/Inactive of the card reader is displayed.

(Sensors to be checked)

Sensor name	Content
CARD	Card insertion detection
DATA	Card number signal detection
CLOCK	Reference clock signal detection

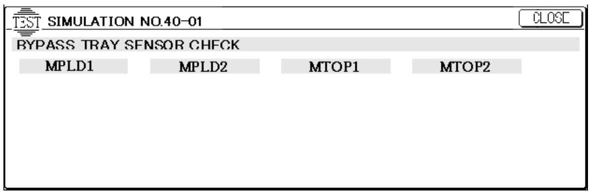

TEST
SIMULATICN NO.33-01
CLOSE
CARD READER SENSER CHECK
CARD
DATA
CLOCK
1/1

40

40 -1

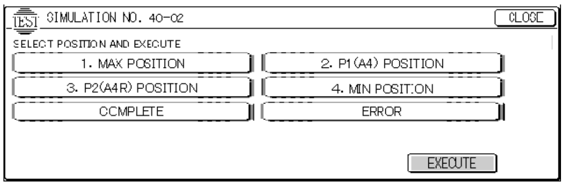
Purpose	Operation test/check
Function (Purpose)	Used to check the operation of the manual feed tray paper size detector and the related circuit. (The operation of the manual feed tray paper size detector can be monitored with the LCD display.)
Section	Paper feed
Item	Operation
Operation/ Procedure	The active sensors and detectors are highlighted. Press the [CLOSE] key to terminate the simulation.

MPLD1	Manual feed size length detection 1
MPLD2	Manual feed size length detection 2
MTOP1	Manual feed tray pull-put detection 1
MTOP2	Manual feed tray pull-out detection 2


TEST
SIMULATION NO.40-01
CLOSE
BYPASS TRAY SENSOR CHECK
MPLD1
MPLD2
MTOP1
MTOP2

40 -2

Purpose	Adjustment
Function (Purpose)	Used to adjust the manual feed tray paper width detector detection level.
Section	Paper feed
Item	Operation
Operation/ Procedure	1. Set the manual paper feed guide to the maximum size. 2. Press the [EXECUTE] key. The [EXECUTE] key is highlighted then it returns to the normal display. The manual paper feed guide max. width position detection level is recognized. 3. Set the manual paper feed guide to A4 (11 x 8.5") size. 4. Press the [EXECUTE] key. The key is highlighted then it returns to the normal display. The manual paper feed guide A4 (11 x 8.5") detection level is recognized. 5. Set the manual paper feed guide to A4R (11 x 8.5R) size. 6. Press the [EXECUTE] key. The key is highlighted then it returns to the normal display. The manual paper feed guide A4 R (11 x 8.5"R) detection level is recognized. 7. Set the manual paper feed guide to the minimum size. 8. Press the [EXECUTE] key. The key is highlighted then it returns to the normal display. The manual paper feed guide minimum size detection level is recognized. If the above operation is not performed properly, the ERROR display is highlighted. If performed properly, the above data is stored and the COMPLETE is highlighted.



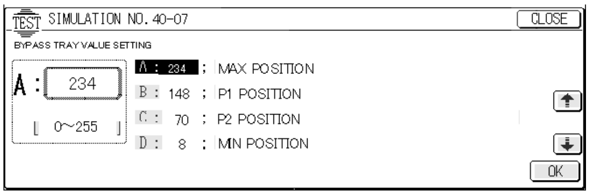
40 -7

Purpose	Setting
Function (Purpose)	Used to enter the adjustment value of the manual paper feed tray paper width detector detection level. (Setting)
Section	Paper feed
Item	Specifications
Operation/ Procedure	1. Select the item (setting) to be entered with the scroll key. 2. Enter the adjustment value with the 10-key pad. 3. Press the [OK] key.

* This simulation is not normally used. Adjustment is made with SIM 40-02.

(Set range)

Item		Set range	Default
A	MAX POSITION	0 – 255	241
B	P1 POSITION	0 – 255	231
C	P2 POSITION	0 – 255	140
D	MIN POSITION	0 – 255	19



A : 234 [0~255]

A : 234 ; MAX POSITION
B : 148 ; P1 POSITION
C : 70 ; P2 POSITION
D : 8 ; MIN POSITION

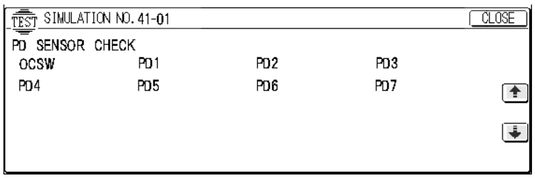
41

41 -1

Purpose	Operation test/check
Function (Purpose)	Used to check the operation of the document size sensor and the related circuit. (The operation of the document size sensor can be monitored with the LCD display.)
Section	Others
Item	Operation
Operation/ Procedure	The active sensors and detectors are highlighted.

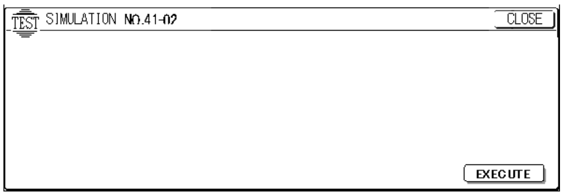
(Sensors to be detected)

OCSW	OC cover open/close detection	Open: Highlighted, Close: Normal
PD1	Document sensor 1	No document (not detected): Normal Document loaded (detected): Highlighted
PD2	Document sensor 2	
PD3	Document sensor 3	
PD4	Document sensor 4	
PD5	Document sensor 5	
PD6	Document sensor 6	
PD7	Document sensor 7	



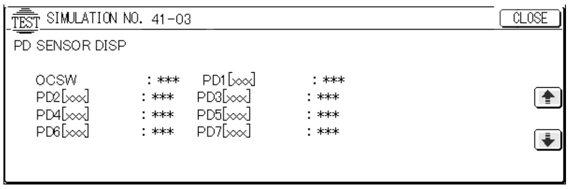
41 -2

Purpose	Adjustment
Function (Purpose)	Used to adjust the document size sensor detection level.
Section	Others
Item	Operation
Operation/ Procedure	1. Open the document table, and press the [EXECUTE] key without document on the document table. The sensor level setting with no document on the table is performed. 2. Set an A3 paper (11" x 17") and press the [EXECUTE] key. The sensor level setting with document is performed. 3. The message of completion of the adjustment is displayed.



41 -3

Purpose	Operation test/check
Function (Purpose)	Used to check the operation of the document size sensor and the related circuit. (The document size sensor output level can be monitored with the LCD display.)
Section	Others
Item	Operation
Operation/ Procedure	The detection output level of each sensor (PD1 ~ PD7) is displayed in real time. * The value in [ ] shown at the right of each sensor name is the threshold value. PD1 – PD7 light receiving (A/D value) and threshold value (A/D value) range is 1 – 255. The default of the threshold value is 128.



SIMULATION NO. 41-03

PD SENSOR DISP

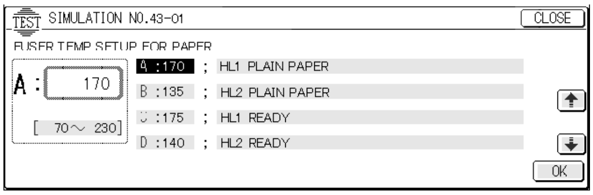
```
OCSW       : ***   PD1[xxx]    : ***
PD2[xxx]   : ***   PD3[xxx]    : ***
PD4[xxx]   : ***   PD5[xxx]    : ***
PD6[xxx]   : ***   PD7[xxx]    : ***
```

43 -1

Purpose	Setting
Function (Purpose)	Used to set the fusing temperature in each operation mode.
Section	Fixing (Fusing)
Item	Operation
Operation/ Procedure	1. Select the kind of lamps and the operation mode with the scroll key. 2. Enter the set value with the 10-key. 3. Press the [OK] key to set the fusing temperature set in procedure 2.

(Display items)

Display	Content	Set range	Default		
			100v Series	120v Series	200v Series
A	Normal paper HL1 set value	70 – 230	170	175	175
B	Normal paper HL2 set value	30 – 200	140	140	140
C	HL1 set value in ready state	70 – 230	165	170	170
D	HL2 set value in ready state	30 – 200	120	120	120
E	Heavy paper 1 HL1 set value	70 – 230	170	175	175
F	Heavy paper 1 HL2 set value	70 – 230	135	136	136
G	Heavy paper 2 HL1 set value	70 – 230	175	175	175
H	Heavy paper 2 HL2 set value	70 – 230	145	145	145
I	OHP1 HL1 set value	70 – 230	170	170	170
J	OHP1 HL2 set value	70 – 230	155	155	155
K	OHP2 HL1 set value	70 – 230	170	170	170
L	OHP2 HL2 set value	70 – 230	155	155	155
M	Envelope HL1 set value	70 – 230	180	180	180
N	Envelope HL2 set value	70 – 230	145	145	145
O	Temperature set value in pre-heating	70 – 200	143	143	143
P	Set temperature at which print is ready by heating up from the preheat mode. (Black and white copy mode)	70 – 200	165	165	165
Q	Set temperature at which the fusing motor starts rotation in warming up operation.	70 – 200	155	155	155
R	When set to “1,” the upper and the lower heat rollers are ready for print only when they reach the specified temperature. (Used when abnormal fusing occurs under low temperature environment.) When set to “0,” the operation is performed in the normal mode. That is, print is ready when the upper heat roller reaches the specified temperature.)	0 – 1	0	0	0



SIMULATION NO.43-01

FUSER TEMP SETUP FOR PAPER

```
A :  170        A :170  ;  HL1  PLAIN PAPER
                B :135  ;  HL2  PLAIN PAPER
                C :175  ;  HL1  READY
 [ 70～ 230]    D :140  ;  HL2  READY
```

44

44 -1

Purpose	Setting
Function (Purpose)	Used to set enable/disable of correction operations in the image forming (process) section.
Section	Process (Photoconductor, developing, transfer, cleaning)
Item	Operation
Operation/ Procedure	1. Select the process item to enable the operation. 2. Press the [EXECUTE] key. (The operations of all process items must be enabled.)

(Items to be selected)

Display	Content
HV	Image forming section correction (Process correction) (High-density image density correction)
HT	Half-tone image density correction
TC	Transfer output correction
RRM	RRM speed correction
MD	Photoconductor membrane decrease (sensitivity/ potential) correction
AR	Image resist auto adjustment *1
AR CHK	Image resist auto adjustment error judgment YES/NO *2

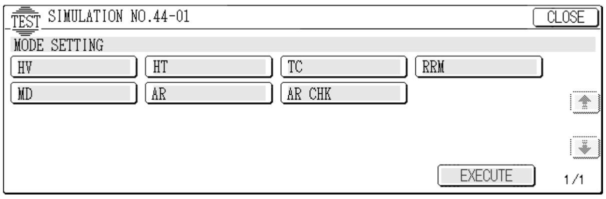
*1: When SIM 50-20 is used to adjust the image resist to the best and the image resist adjustment is performed under the following condition automatically, the best adjustment state may be changed. To avoid this, set the adjustment item AR to Disable.

When the adjustment item AR is set to Disable (ON), the image resist adjustment is automatically performed under the following conditions.

Normally set to ON condition.

*2: When the image registration automatic adjustment operation is abnormal, it is judged as an error or not.

- After replacement of a toner cartridge
- At every 8000 copies (total of print and copy)
  (When, however, 8000 copies is reached during a job, the operation is stopped after completion of the job.)

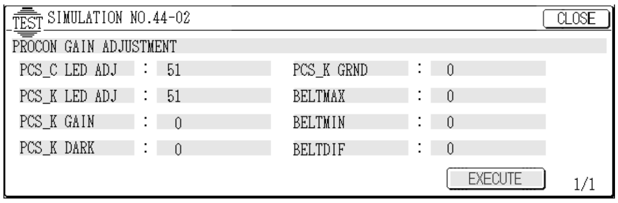


44 -2

Purpose	Adjustment
Function (Purpose)	Black image density sensor adjustment
Section	Process (Transfer)
Item	Operation
Operation/ Procedure	1. Press the [EXECUTE] key. The amplifier gain adjustment of the black image density sensor is automatically performed. After completion of the adjustment, the result is displayed and the [EXECUTE] key display returns to the original state.

(Display items)

	Display	Content	Min Value	Max Value	Default value
A	PCS_C LED ADJ	Color image density sensor current adjustment value	1	255	51
B	PCS K LED ADJ	Black image density sensor LED current adjustment value	1	255	51
C	PCS_K GAIN	Black image density sensor output gain (AMP) adjustment value	0	15	0
D	PCS_K DARK	Black image density sensor dark voltage level	0	255	0
E	PCS_K GRND	Black image density sensor transfer belt surface detection level	0	255	0
F	BELTMAX	Transfer belt surface max. detection level (Black image sensor)	0	255	0
G	BELTMIN	Transfer belt surface min. detection level (Black image sensor)	0	255	0
H	BELTDIF	Difference between max. and min. of the transfer belt surface detection level (BELTmax-BELTMIN)	0	255	0



PCS_C LED ADJ : 51
PCS_K LED ADJ : 51
PCS_K GAIN : 0
PCS_K DARK : 0
PCS_K GRND : 0
BELTMAX : 0
BELTMIN : 0
BELTDIF : 0

If the adjustment is not completed normally, "ERROR" is displayed. In case of an error, the contents of the adjustment are not revised.

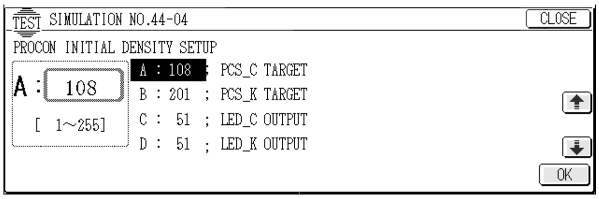
44 -4

Purpose	Setting
Function (Purpose)	Image forming section correction, image density sensor adjustment conditions setup
Section	Process (Photoconductor, development, transfer)
Item	Picture quality
Operation/ Procedure	1. Select the item to beg set by the scroll key. 2. Enter the set value with the 10-key, and press the [OK] key. (The entered value is set.) Set all to the default values.

(Display items)

	Display	Content	Min Value	Max Value	Default value
A	PCS_C TARGET	Color image density sensor adjustment target value	1	255	108
B	PCS_K TARGET	Black image density sensor adjustment target value	1	255	201
C	LED_C OUTPUT	Initial current level in color image density sensor adjustment	1	255	51
D	LED_K OUTPUT	Initial current level in black image density sensor adjustment	1	255	51
E	PCS ADJSTMENT LIMIT	Allowable error level in adjustments	1	255	2
F	BELT GROUND DIF	Error judgment level for the belt surface detection level difference	1	255	255
G	BIAS_CL STANDARD DIF	Set value (color) of the developing basis correction start voltage difference in high density image correction	0	255	50
H	BIAS_BK STANDARD DIF	Set value (black) of the developing basis correction start voltage difference in high density image correction	0	255	75
I	BIAS PATCH INTERVAL	Patch forming developing bias voltage interval (voltage difference) in high density image correction	1	255	50
J	Y_PAT TARGET ID	Base target density level (Y) in high density image correction	1	255	88
K	M_PAT TARGET ID	Base target density level (M) in high density image correction	1	255	95
L	C_PAT TARGET ID	Base target density level (C) in high density image correction	1	255	94
M	K_PAT TARGET ID	Base target density level (K) in high density image correction	1	255	22

Display		Content	Min Value	Max Value	Default value
N	HV BK_GROUND LIMIT	Error judgment level for belt surface detection level difference (Allowable range of transfer belt surface detection level difference (mix. - min.) of black toner image patch position)	1	255	29
O	PCS_C MARKET TARGET	Adjustment target value (Color image density sensor) when adjusting the primary LED current value by using the calibration plate in SIM44-36.	1	255	120
P	PCS_C MARKET LED-REV	In SIM44-36, the toner patch density is read by three kinds of LED currents with the primary LED current adjustment value as the center value in order to obtain PCS C LED ADJ value. This is the deflection range of the current value in the above case. (Color image density sensor)	1	255	10



```
SIMULATION NO.44-04
PROCON INITIAL DENSITY SETUP
A : 108
[ 1~255]
A : 108 ; PCS_C TARGET
B : 201 ; PCS_K TARGET
C :  51 ; LED_C OUTPUT
D :  51 ; LED_K OUTPUT
```

44 -6

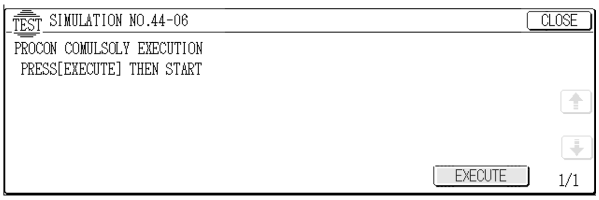
Purpose	Operation test/check
Function (Purpose)	Used to forcibly execute the image forming section correction (high density process correction) (process correction).
Section	Process (Photoconductor, developing, transfer, cleaning)
Item	Operation
Operation/ Procedure	1. Press the [EXECUTE] key, and the image forming section correction is started. 2. If the operation is normally completed, COMPLETE is displayed and the correction result becomes valid.

If the operation is not normally completed, ERROPR is highlighted and the detail of the trouble is displayed. The detail of correction can be checked with SIM 44-9 and SIM 44-12.

(Result/Detail messages list)

Result display	Content
COMPLETE	Correction is normally completed.
ERROR	An error occurred during correction. (The previous correction result is maintained.)
COMPULSORY INTERRUPTION	Compulsory interruption

Error display	Content
COLOR_SENSOR_ ADJUSTMENT_ERROR	Color image density sensor adjustment error
BLACK_GAIN_ ADJUSTMENT_ERROR	Black image density sensor gain adjustment error
BLACK_SENSOR_ ADJUSTMENT_ERROR	Black image density sensor adjustment error
BLACK_PROCON_ERROR	High-density image density correction (process correction) error (K)
CYAN_PROCON_ERROR	High-density image density correction (process correction) error (C)
MAGENTA_PROCON_ERROR	High-density image density correction (process correction) error (M)
YELLOW_PROCON_ERROR	High-density image density correction (process correction) error (Y)
CONNECTION_ERROR	Sensor-PCU PWB communication trouble



```
SIMULATION NO.44-06
PROCON COMULSOLY EXECUTION
 PRESS[EXECUTE] THEN START
```

44 -9

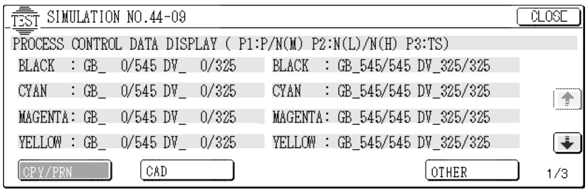
Purpose	Adjustment/Setting/Operation data output, check (display, print)
Function (Purpose)	Used to check the data related to the image forming section correction (the corrected main charger grid voltage in each print mode, the developing bias voltage, etc.). (Used to check that correction is performed normally or not.)
Section	Process (Photoconductor, developing, transfer, cleaning)
Item	Data Operation data (Machine conditions)
Operation/ Procedure	1. By scrolling with the scroll key, each data of the image forming section correction result. can be checked.

2. [CPY/PRN] key selected: Process control mode is displayed.
   [CAD] key selected: Drawing mode is displayed. (Printer, etc.)
   [OTHER] key selected: The environment area and the number of execution of process control are displayed.

(Displayed items)

Display	Content
P (PROCON MODE)	Main charger grid voltage/developing bias voltage by high density image correction (Y, M, C, K)
N (NORMAL MODE (MIDDLE)	Actual main charger grid voltage/developing bias voltage (Normal, medium speed mode) (Y, M, C, K)
N (NORMAL MODE (LOW)	Actual main charger grid voltage/developing bias voltage (Normal, low speed mode) (Y, M, C, K)
N (NORMAL MODE (HIGH)	Actual main charger grid voltage/developing bias voltage (Normal, high-speed mode) (Y, M, C, K)
TS (TONER SAVE MODE)	Actual main charger grid voltage /Developing bias voltage (toner save high/medium/low speed mode) (K)
D (DRAWING MODE (MIDDLE)	Actual main charger grid voltage/developing bias voltage (Drawing, medium speed mode) (Y, M, C, K)

Display	Content
D (DRAWING MODE (LOW)	Actual main charger grid voltage /Developing bias voltage (drawing, low speed mode) (YMCK)
TEMP AREA	Temperature area
TEMP	Temperature (HEX value)
HUMIDITY AREA	Humidity
HUMIDITY	Humidity (HEX value)
MD X STEP (M/L/H)	Photoconductor drum membrane decrease correction step (Max. 4 steps) /Correction voltage
CONVERSION	Discrimination of Sharp version and other company version of toner cartridge (0: SHARP, 1: Other company)
DESTINATION	Destination of toner cartridge stored in the machine memory
MODEL TYPE	Toner cartridge application model (DM/AR)
CRUM DESTINATION (X)	Toner cartridge destination
DV X STEP (X)	Developing bias voltage correction step (corretion voltage) for toner cartridge life
HV	Number of corrections of high density image density
HT	Number of corrections of half-tone image density



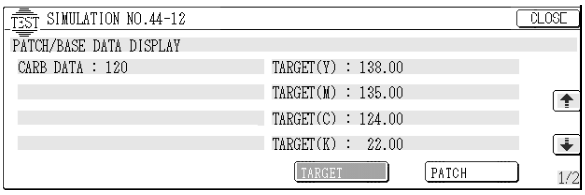
```
PROCESS CONTROL DATA DISPLAY ( P1:P/N(M) P2:N(L)/N(H) P3:TS)
BLACK  : GB_  0/545 DV_  0/325    BLACK  : GB_545/545 DV_325/325
CYAN   : GB_  0/545 DV_  0/325    CYAN   : GB_545/545 DV_325/325
MAGENTA: GB_  0/545 DV_  0/325    MAGENTA: GB_545/545 DV_325/325
YELLOW : GB_  0/545 DV_  0/325    YELLOW : GB_545/545 DV_325/325
```

44 -12

Purpose	Adjustment/Setting/Operation data output, check (display, print)
Function (Purpose)	Used to check the sampling toner image patch density data in the image forming section correction (high-density correction) (process correction). This simulation allows to check if the correction operation is performed normally.)
Section	Process (Photoconductor, developing, transfer, cleaning)
Item	Data Operation data (Machine conditions)
Operation/ Procedure	The [TARGET] key and the [PATCH] key are used to select the display of the correction target level of each color and the toner image patch density sampling data.

(Display items)

Display	Content
CARB DATA	Color image density sensor output level when the calibration plate is detected by the basis of the color image density sensor LED current adjustment value.
ID (YMC)	Actual target density level in high density image correction
ID (K)	Actual target density level in high density image correction
n-1	Toner patch density (previous patch of nth patch data) in high density image correction (Center voltage - 50v) (n = 1 to 10))
n-2	Toner patch density (Medium patch of nth patch data) in high density image correction (Center voltage) (n = 1 to 10))
n-3	Toner patch density (following patch of nth patch data) in high density image correction (Center voltage + 50v) (n = 1 to 10))



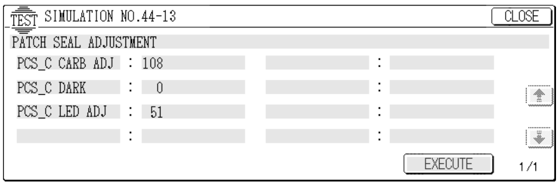
```
PATCH/BASE DATA DISPLAY
CARB DATA : 120         TARGET(Y) : 138.00
                        TARGET(M) : 135.00
                        TARGET(C) : 124.00
                        TARGET(K) :  22.00
```

44 -13

Purpose	Adjustment
Function (Purpose)	Color image density sensor adjustment (Adjustment by the adjustment jig)
Section	Process (Transfer)
Operation/ Procedure	1. Open the front cover of the machine. 2. Install the color image density sensor adjustment jig to the transfer unit frame, and close the left cabinet. 3. With the front cover of the machine open (cover open/close switch OFF), turn on the power. 4. Enter the SIM44-13 mode. 5. Close the front cover of the machine. 6. Press the [EXECUTE] key. Adjustment is performed automatically. After completion of adjustment, the result is displayed and the [EXECUTE] key display returns to the original state. 7. Remove the color image density sensor adjustment jig.

(Set items)

Display		Content	Min Value	Max Value	Default value
A	PCS_C CARB ADJ	Color image density sensor LED current adjustment target value	1	255	108
B	PCS_C DARK	Color image density sensor dark voltage level	0	255	0
C	PCS_C LED ADJ	Color image density sensor current adjustment value	1	255	51



```
PATCH SEAL ADJUSTMENT
PCS_C CARB ADJ : 108
PCS_C DARK     :   0
PCS_C LED ADJ  :  51
```

If the adjustment is not completed normally, "ERROR" is displayed. In case of an error, the contents of the adjustment are not revised.

44 -14

Purpose	Adjustment/Setting/Operation data output, check (display, print)
Function (Purpose)	Used to monitor the output level of the fusing temperature sensor, the machine temperature sensor, and the humidity sensor.
Section	Others
Operation/ Procedure	The fusing temperature, the fusing thermistor temperature, and the machine temperature and humidity are displayed.

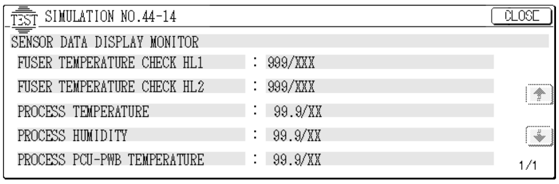
(Display items)

Display	Content
FUSER TEMPERATURE CHECK HL1	Fusing temperature display Upper (Temperature/AD value)
FUSER TEMPERATURE CHECK HL2	Fusing temperature display Lower (Temperature/AD value)

Display	Content
PROCESS TEMPERATURE	Image process correction temperature sensor temperature display (Temperature/AD value)
PROCESS HUMIDITY	Image process correction humidity sensor humidity display (Relative humidity/AD value)

When the value exceeds the detection range, "-" is displayed.

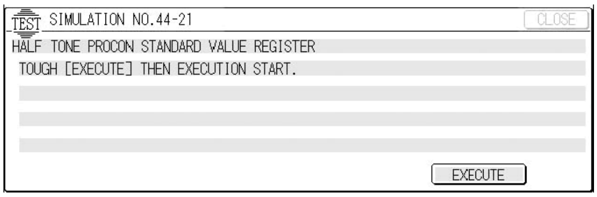
Developing temperature:	-20.0 to 40.0
Humidity:	0.0 to 99.9
Board temperature:	-20.0 to 80.0



```
SIMULATION NO.44-14
SENSOR DATA DISPLAY MONITOR
 FUSER TEMPERATURE CHECK HL1   : 999/XXX
 FUSER TEMPERATURE CHECK HL2   : 999/XXX
 PROCESS TEMPERATURE           :  99.9/XX
 PROCESS HUMIDITY              :  99.9/XX
 PROCESS PCU-PWB TEMPERATURE   :  99.9/XX
```

44 -21

Purpose	Setting
Function (Purpose)	Used to store color balance adjustment data. (Half tone image correction initial setting) (After execution of color balance adjustment with SIM 46-21, this simulation must be executed.)
Section	Picture quality
Operation/ Procedure	1. Press the [EXECUTE] key, and it is highlighted and the operation of color balance adjustment data (half-tone correction initial data) storing is started. After completion of the execution, the [EXECUTE] key returns to the normal display * In case of an error in the above operation, "ERROR" is displayed and the color balance adjustment data (half-tone initial data) are not stored.



```
SIMULATION NO.44-21
HALF TONE PROCON STANDARD VALUE REGISTER
 TOUGH [EXECUTE] THEN EXECUTION START.
```

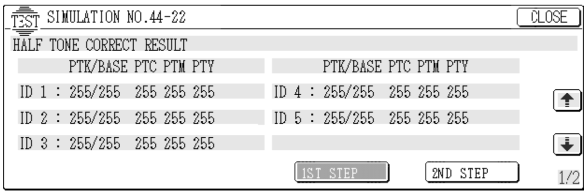
44 -22

Purpose	Adjustment/Setting/Operation data output, check (display, print)
Function (Purpose)	Used to check each color toner patch image density UITU in half tone image forming section correction (process correction). (This simulation allows to check if correction operation is performed normally.)
Section	Process (Photoconductor, developing, transfer, cleaning)
Item	Data Operation data (Machine conditions)
Operation/ Procedure	The toner image patch density data in half-tone correction are displayed. [1ST STEP]: The toner image patch density sampling data in the 1ST STEP are displayed. [2ND STEP]: The toner image patch density sampling data in the 2ND STEP are displayed.

(Display items)

Display	Content
1ST STEP	Correction operation 1ST STEP toner image patch density detection level (n=1 – 5)
2ND STEP	Correction operation 2ND STEP toner image patch density detection level (n=1 – 16)

ID-n	PTK/GND	PTC	PTM	PTY
	Black image patch density detection level/Transfer belt element detection level	Cyan image patch density detection level	Magenta image patch density detection level	Yellow image patch density detection level



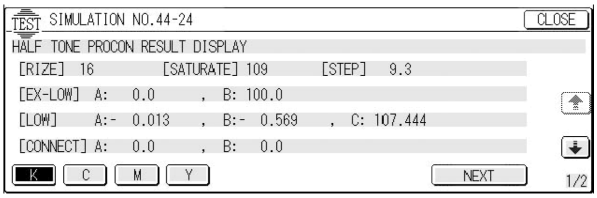
```
SIMULATION NO.44-22
HALF TONE CORRECT RESULT
      PTK/BASE PTC PTM PTY            PTK/BASE PTC PTM PTY
 ID 1 : 255/255  255 255 255    ID 4 : 255/255  255 255 255
 ID 2 : 255/255  255 255 255    ID 5 : 255/255  255 255 255
 ID 3 : 255/255  255 255 255
```

44 -24

Purpose	Adjustment/Setting/Operation data output, check (display, print)
Function (Purpose)	Used to check the half tone correction result. (This simulation allows to check if correction is executed properly or not.)
Section	Process (Photoconductor, developing, transfer, cleaning)
Item	Data Operation data (Machine conditions)
Operation/ Procedure	1. Select a page with the scroll key. 2. Select the color mode with [K], [C], [M], and [Y] keys.

3. When [NEXT] key is pressed repeatedly, the display changes from Coefficient to Reference Value then to Correction Value in this sequence.

- When the displayed item is not yet executed, "-" is displayed. In case of an error, "ERR" is displayed.
- For the reference value and the correction value, an error display is not made, but the previous value is displayed.



```
SIMULATION NO.44-24
HALF TONE PROCON RESULT DISPLAY
 [RIZE]  16          [SATURATE] 109       [STEP]   9.3
 [EX-LOW]  A:   0.0      ,  B: 100.0
 [LOW]     A:-  0.013    ,  B:-  0.569    ,  C: 107.444
 [CONNECT] A:   0.0      ,  B:   0.0
```

44 -25

Purpose	Adjustment/Setting/Operation data output, check (display, print)
Function (Purpose)	Setting the half tone correction conditions.
Section	Process (Photoconductor, developing, transfer, cleaning)
Item	Data Operation data (Machine conditions)
Operation/ Procedure	1. Select the color mode with [K], [C], [M], and [Y] keys. 2. Select the set item with the scroll key.

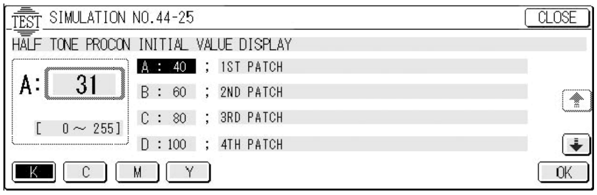
3. Enter the set value with the 10-key and press the [OK] key to store the set value.

Note: Do not set to other value than the default.

(Items to be set)

	Item	Default setting value	Set range	Content
A	1ST PATCH	40	0 – 255	Half-tone process control 1st step 1st patch print gradation
B	2ND PATCH	60	0 – 255	Half-tone process control 1st step 2nd patch print gradation

Item		Default setting value	Set range	Content
C	3RD PATCH	80	0 – 255	Half-tone process control 1st step 3rd patch print gradation
D	4TH PATCH	100	0 – 255	Half-tone process control 1st step 4th patch print gradation
E	5TH PATCH	255	0 – 255	Half-tone process control 1st step 5th patch print gradation


SIMULATION NO.44-25

HALF TONE PROCON INITIAL VALUE DISPLAY

A: 31

[0 ～ 255]

A : 40 ; 1ST PATCH

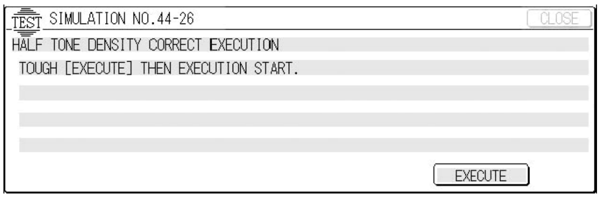
B : 60 ; 2ND PATCH

C : 80 ; 3RD PATCH

D : 100 ; 4TH PATCH

44 -26

Purpose	Adjustment
Function (Purpose)	Used to execute half tone correction compulsorily.
Section	Process (Photoconductor, developing, transfer, cleaning)
Item	Picture quality
Operation/ Procedure	1. Press the [EXECUTE] key, and it is highlighted. The half tone correction is started. When the compulsory execution is completed, the [EXECUTE] key returns to the normal display. * In the case of abnormal completion, ERROR is displayed and the correction data are not stored.


SIMULATION NO.44-26

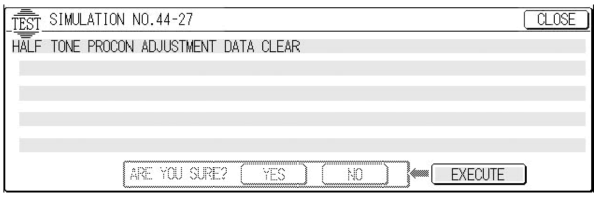
HALF TONE DENSITY CORRECT EXECUTION

TOUGH [EXECUTE] THEN EXECUTION START.

44 -27

Purpose	Data clear
Function (Purpose)	Used to clear the half tone correction data and set to the default level.
Section	Process (Photoconductor, developing, transfer, cleaning)
Item	Data
Operation/ Procedure	1. Press the [EXECUTE] key. The [YES] and [NO] keys become active. 2. Press the [YES] key, and the half tone correction data is set to the default level. (If the [NO] key is pressed, it is canceled.)

* After replacement of the OPC drum, be sure to execute this simulation.


SIMULATION NO.44-27

HALF TONE PROCON ADJUSTMENT DATA CLEAR

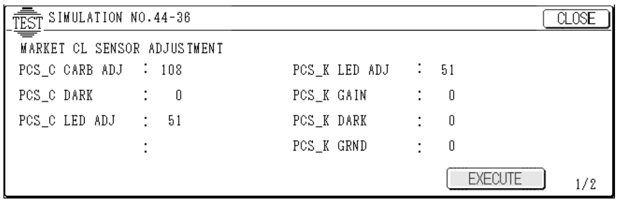
ARE YOU SURE?

44 -36

Purpose	Adjustment
Function (Purpose)	Color image density sensor and black image density sensor adjustment (simple adjustment)
Section	Process (Transfer)
Operation/ Procedure	1. Enter the SIM44-36 mode. 2. Press the [EXECUTE] key. Adjustment is performed automatically. After completion of adjustment, the result is displayed and the [EXECUTE] key display returns to the original state. SIM44-36 is used to adjust both the color image density sensor and the black image density sensor.

(Adjustment items)

Display	Content	Min Value	Max Value	Default value
PCS_C CARB ADJ	Color image density sensor LED current adjustment target value	1	255	108
PCS_C DARK	Color image density sensor dark voltage level	0	255	0
PCS_C LED ADJ	Color image density sensor current adjustment value	1	255	51
PCS K LED ADJ	Black image density sensor LED current adjustment value	1	255	51
PCS_K GAIN	Black image density sensor output gain (AMP) adjustment value	0	15	0
PCS_K DARK	Black image density sensor dark voltage level	0	255	0
PCS_K GRND	Black image density sensor transfer belt surface detection level	0	255	0
BELTMAX	Transfer belt surface max. detection level (Black image sensor)	0	255	0
BELTMIN	Transfer belt surface min. detection level (Black image sensor)	0	255	0
BELTDIF	Difference between the max. value and the min. value of transfer belt surface detection level (BELTMAX-BELTMIN)	0	255	0


SIMULATION NO.44-36

MARKET CL SENSOR ADJUSTMENT

PCS_C CARB ADJ : 108

PCS_C DARK : 0

PCS_C LED ADJ : 51

PCS_K LED ADJ : 51

PCS_K GAIN : 0

PCS_K DARK : 0

PCS_K GRND : 0

1/2

If the adjustment is not completed normally, "ERROR" is displayed. In case of an error, the contents of the adjustment are not revised.

(NOTE)

If the adjustment jig is not available, use the simple adjustment (SIM44-36). Depending on the machine conditions, however, the adjustment accuracy is insufficient. Carefully note that.

If toner, the OPC drum, and the transfer belt are not new ones or almost new ones, use of the simple adjustment method is not recommendable.

Though the machine conditions are so well as to use the simple adjustment (without the adjustment jig), it is better to perform the adjustment by using the adjustment jig for higher adjustment accuracy.

After the color image density sensor adjustment (adjustment by the adjusting jig) with SIM44-13, do not execute SIM44-36 unnecessarily.

If SIM44-36 is executed, the contents of the color image density sensor adjustment (adjustment by the adjustment jig) are erased and the adjustment result of SIM44-36 are saved.

When the color image density sensor adjustment is executed with SIM44-13 and the black image density sensor adjustment is executed with SIM44-2, there is no need to execute the adjustment with SIM44-36.

To adjust the black image density sensor, the adjustment jig is not required.

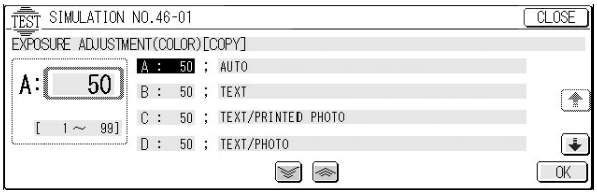
46

46 -1

Purpose	Adjustment
Function (Purpose)	Used to adjust the copy density of each color copy mode in the low-density area. The copy densities of all colors in the low-density area are changed.
Section	Process (Photoconductor, developing, transfer, cleaning)
Item	Picture quality Density
Operation/ Procedure	1. Select the copy mode for copy density adjustment with the scroll key. 2. Enter the set value with the 10-key and press the [OK] key, and the set value is stores.

(Items to be set)

Display		Copy mode (Color)	Min. Value	Max. Value	Default
A	AUTO	Auto (Auto document kind recognition, auto exposure)	1	99	50
B	TEXT	Text	1	99	50
C	TEXT/PRINTED PHOTO	Text/Printed photo	1	99	50
D	TEXT/PHOTO	Text/ Photograph	1	99	50
E	PRINTED PHOTO	Printed photo	1	99	50
F	PHOTOGRAPH	Photograph	1	99	50
G	MAP	Map	1	99	50
H	TEXT (COPY TO COPY)	Text (Copy document)	1	99	50
I	TEXT/PRINTED PHOTO (COPY TO COPY)	Text/Print (Copy document)	1	99	50
J	PRINTED PHOTO (COPY TO COPY)	Printed photo	1	99	50
K	TEXT (COLOR TONE ENHANCEMENT)	Text (Color emphasis)	1	99	50
L	TEXT/PRINTED PHOTO (COLOR TONE ENHANCEMENT)	Text/Print (Color emphasis)	1	99	50
M	TEXT/PHOTO (COLOR TONE ENHANCEMENT)	Color/ Photograph (Color emphasis)	1	99	50
N	PRINTED PHOTO (COLOR TONE ENHANCEMENT)	Prided photo (Color emphasis)	1	99	50
O	PHOTOGRAPH (COLOR TONE ENHANCEMENT)	Photograph (Color emphasis)	1	99	50
P	MAP (COLOR TONE ENHANCEMENT)	Map (Color emphasis)	1	99	50
Q	SINGLE COLOR	Single color	1	99	50
R	SINGLE COLOR (COPY TO COPY)	Single color (Copy document)	1	99	50



SIMULATION NO.46-01

EXPOSURE ADJUSTMENT(COLOR)[COPY]

A: 50

[1～ 99]

A : 50 ; AUTO

B : 50 ; TEXT

C : 50 ; TEXT/PRINTED PHOTO

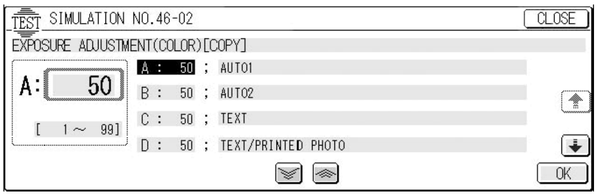
D : 50 ; TEXT/PHOTO

46 -2

Purpose	Adjustment
Function (Purpose)	Used to adjust the copy density of the low-density area in each monochrome copy mode. The copy density of the low-density area is changed.
Section	Process (Photoconductor, developing, transfer, cleaning)
Item	Picture quality Density
Operation/ Procedure	1. Select the copy mode for copy density adjustment with the scroll key. 2. Enter the set value with the 10-key and press the [OK] key, and the entered value is set.

(Items to be set)

Display		Copy mode (Color)	Min. Value	Max. Value	Default
A	AUTO1 (*1)	Auto 1 (Japan)	1	99	50
B	AUTO2 (*2)	Auto 2 (Except Japan)	1	99	50
C	TEXT	Text	1	99	50
D	TEXT/PRINTED PHOTO	Text/Printed photo	1	99	50
E	TEXT/PHOTO	Text/Photograph	1	99	50
F	PRINTED PHOTO	Printed photo	1	99	50
G	PHOTOGRAPH	Photograph	1	99	50
H	MAP	Map	1	99	50
I	TEXT (COPY TO COPY)	Text (Copy document)	1	99	50
J	TEXT/PRINTED PHOTO (COPY TO COPY)	Text/Printed photo (Copy document)	1	99	50
K	PRINTED PHOTO (COPY TO COPY)	Printed photo (Copy document)	1	99	50



SIMULATION NO.46-02

EXPOSURE ADJUSTMENT(COLOR)[COPY]

A: 50

[1～ 99]

A : 50 ; AUTO1

B : 50 ; AUTO2

C : 50 ; TEXT

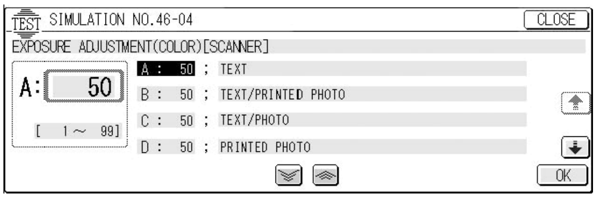
D : 50 ; TEXT/PRINTED PHOTO

46 -4

Purpose	Adjustment
Function (Purpose)	Used to adjust the image density (color mode) in the network scan mode.
Section	Scanner (reading)
Item	Picture quality Density
Operation/ Procedure	1. Select the scan mode with the scroll key. 2. Enter the adjustment value with the 10-key and press the [OK] key, and the entered value is set. The adjustment result is valid only for the network scan mode.

(Items to be set)

Display		Network scan color mode	Min. Value	Max. Value	Default
A	TEXT	Text	1	99	50
B	TEXT/PRINTED PHOTO	Text/Printed photo	1	99	50
C	TEXT/PHOTO	Text/Photograph	1	99	50
D	PRINTED PHOTO	Printed photo	1	99	50
E	PHOTOGRAPH	Photograph	1	99	50
F	MAP	Map	1	99	50



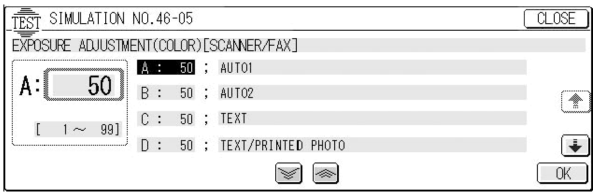
SIMULATION NO.46-04
EXPOSURE ADJUSTMENT(COLOR)[SCANNER]
A: 50
[1～ 99]
A : 50 ; TEXT
B : 50 ; TEXT/PRINTED PHOTO
C : 50 ; TEXT/PHOTO
D : 50 ; PRINTED PHOTO

46 -5

Purpose	Adjustment
Function (Purpose)	Used to adjust the image density (monochrome mode) in the network scan mode.
Section	Scanner (reading)
Item	Picture quality Density
Operation/ Procedure	1. Select the scan mode with the scroll key. 2. Enter the adjustment value with the 10-key and press the [OK] key, and the entered value is set. The adjustment result is valid only for the network scan mode.

(Items to be set)

Display		Network scan monochrome mode	Min. Value	Max. Value	Default
A	AUTO TEXT	Text (Auto)	1	99	50
B	AUTO TEXT/PRINT PHOTO	Text/Printed photo (Auto)	1	99	50
C	AUTO TEXT/PHOTO	Text/Photograph (Auto)	1	99	50
D	TEXT	Text	1	99	50
E	TEXT/PRINTED PHOTO	Text/Printed photo	1	99	50
F	TEXT/PHOTO	Text/Photograph	1	99	50
G	PRINTED PHOTO	Printed photo	1	99	50
H	PHOTOGRAPH	Photograph	1	99	50
I	MAP	Map	1	99	50



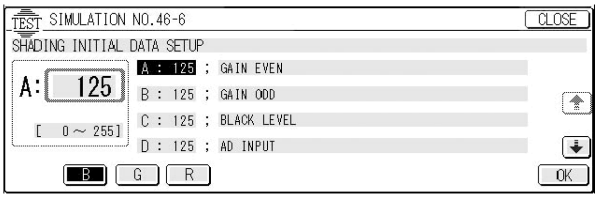
SIMULATION NO.46-05
EXPOSURE ADJUSTMENT(COLOR)[SCANNER/FAX]
A: 50
[1～ 99]
A : 50 ; AUTO1
B : 50 ; AUTO2
C : 50 ; TEXT
D : 50 ; TEXT/PRINTED PHOTO

46 -6

Purpose	Adjustment
Function (Purpose)	1) Used to set the CCD black level offset level. 2) Used to set the CCD white level gain.
Section	Scanner (reading)
Item	Picture quality
Operation/ Procedure	Only one color button can be selected. The selected key is highlighted. (Default: [B]) 1. Select the color to be adjusted with the color key (K/C/M/Y). 2. Select the copy mode for the copy density adjustment with the scroll key. 3. Select the color mode with the color key (RGB). (The currently set adjustment value is displayed.) 4. Enter the set value with the 10-key and press the [OK] key, and the entered value is set.

Set the following set value.

Display		Content	Min. Value	Max. Value	Default
A	GAIN EVEN	Gain adjustment start value (Even number)	0	255	0
B	GAIN ODD	Gain adjustment start value (Odd number)	0	255	0
C	BLACK LEVEL	Output black level	0	255	32
D	AD INPUT	Analog IC function control	0	31	2



SIMULATION NO.46-6
SHADING INITIAL DATA SETUP
A: 125
[0～ 255]
A : 125 ; GAIN EVEN
B : 125 ; GAIN ODD
C : 125 ; BLACK LEVEL
D : 125 ; AD INPUT

46 -10

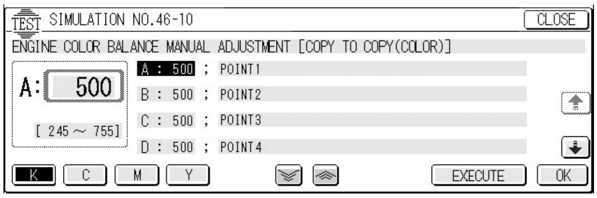
Purpose	Adjustment
Function (Purpose)	Used to adjust the copy color balance (color) (copy document mode) (gamma/density adjustment for each color)
Section	Image process (ICU)
Item	Picture quality Color balance
Operation/ Procedure	1. Select the color to be adjusted with the color key (K/C/M/Y). 2. Select the adjustment point with the scroll key. 3. Enter the adjustment value of the selected point with the 10-key and press the [OK] key. (The entered value is set.)

When the [EXECUTE] key is pressed, the color balance adjustment check pattern corresponding to the entered adjustment value is printed.

(Items to be set)

Display		Min. Value	Max. Value	Default
A ↓ O	POINT1 ↓ POINT15	245 ↓ 245	755 ↓ 755	500 ↓ 500

Common to KCMY.



SIMULATION NO.46-10
ENGINE COLOR BALANCE MANUAL ADJUSTMENT [COPY TO COPY(COLOR)]
A: 500
[245～ 755]
A : 500 ; POINT1
B : 500 ; POINT2
C : 500 ; POINT3
D : 500 ; POINT4

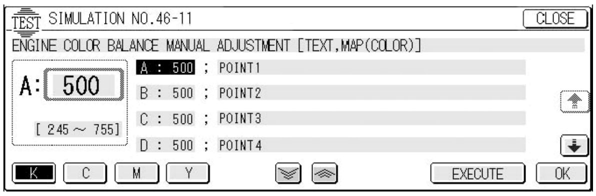
46 -11

Purpose	Adjustment
Function (Purpose)	Used to adjust the copy color balance (color) (text mode/map mode) (gamma/density adjustment for each color)
Section	Image process (ICU)
Item	Picture quality Color balance
Operation/ Procedure	1. Select the color to be adjusted with the color key (K/C/M/Y). 2. Select the adjustment point with the [2], [4] keys. 3. Enter the adjustment value of the selected point with the 10-key and press the [OK] key. (The entered value is set.)

When the [EXECUTE] key is pressed, the color balance adjustment check pattern corresponding to the entered adjustment value is printed.

(Items to be set)

Display		Min. Value	Max. Value	Default
A	POINT1	245	755	500
↓	↓	↓	↓	↓
O	POINT15	245	755	500



ENGINE COLOR BALANCE MANUAL ADJUSTMENT [TEXT,MAP(COLOR)]

A: 500

[245 ~ 755]

A : 500 ; POINT1
B : 500 ; POINT2
C : 500 ; POINT3
D : 500 ; POINT4

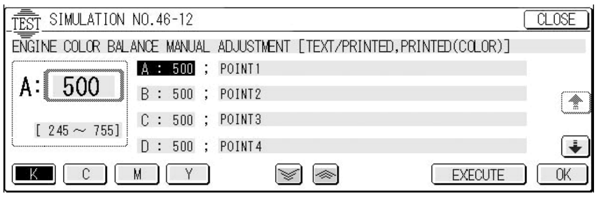
46 -12

Purpose	Adjustment
Function (Purpose)	Used to adjust the copy color balance (color) (text/printed photo mode/Photograph mode) (gamma/density adjustment for each color)
Section	Image process (ICU)
Item	Picture quality Color balance
Operation/ Procedure	1. Select the color to be adjusted with the color key (K/C/M/Y). 2. Select the adjustment point with the scroll key. 3. Enter the adjustment value of the selected point with the 10-key and press the [OK] key. (The entered value is set.)

When the [EXECUTE] key is pressed, the color balance adjustment check pattern corresponding to the entered adjustment value is printed.

(Items to be set)

Display		Min. Value	Max. Value	Default
A	POINT1	245	755	500
↓	↓	↓	↓	↓
O	POINT15	245	755	500



ENGINE COLOR BALANCE MANUAL ADJUSTMENT [TEXT/PRINTED,PRINTED(COLOR)]

A: 500

[245 ~ 755]

A : 500 ; POINT1
B : 500 ; POINT2
C : 500 ; POINT3
D : 500 ; POINT4

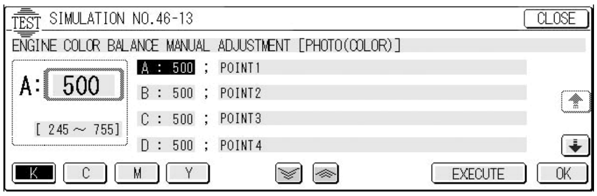
46 -13

Purpose	Adjustment
Function (Purpose)	Used to adjust the copy color balance (color) (photograph mode) (gamma/density adjustment for each color)
Section	Image process (ICU)
Item	Picture quality Color balance
Operation/ Procedure	1. Select the color to be adjusted with the color key (K/C/M/Y). 2. Select the adjustment point with the scroll key. 3. Enter the adjustment value of the selected point with the 10-key and press the [OK] key. (The entered value is set.)

When the [EXECUTE] key is pressed, the color balance adjustment check pattern corresponding to the entered adjustment value is printed.

(Items to be set)

Display		Min. Value	Max. Value	Default
A	POINT1	245	755	500
↓	↓	↓	↓	↓
O	POINT15	245	755	500



ENGINE COLOR BALANCE MANUAL ADJUSTMENT [PHOTO(COLOR)]

A: 500

[245 ~ 755]

A : 500 ; POINT1
B : 500 ; POINT2
C : 500 ; POINT3
D : 500 ; POINT4

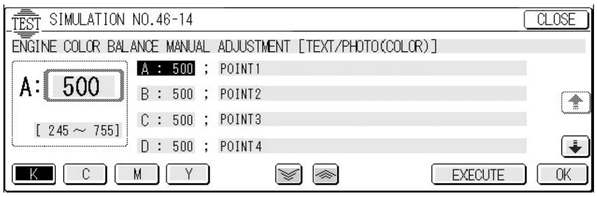
46 -14

Purpose	Adjustment
Function (Purpose)	Used to adjust the copy color balance (color) (text/photograph mode) (gamma/density adjustment for each color)
Section	Image process (ICU)
Item	Picture quality Color balance
Operation/ Procedure	1. Select the color to be adjusted with the color key (K/C/M/Y). 2. Select the adjustment point with the scroll key. 3. Enter the adjustment value of the selected point with the 10-key and press the [OK] key. (The entered value is set.)

When the [EXECUTE] key is pressed, the color balance adjustment check pattern corresponding to the entered adjustment value is printed.

(Items to be set)

Display		Min. Value	Max. Value	Default
A	POINT1	245	755	500
↓	↓	↓	↓	↓
O	POINT15	245	755	500



ENGINE COLOR BALANCE MANUAL ADJUSTMENT [TEXT/PHOTO(COLOR)]

A: 500

[245 ~ 755]

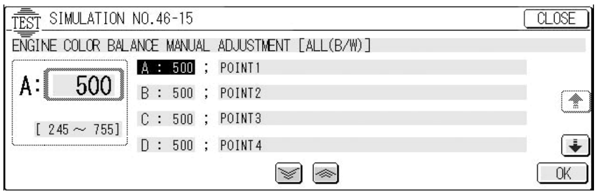
A : 500 ; POINT1
B : 500 ; POINT2
C : 500 ; POINT3
D : 500 ; POINT4

46 -15

Purpose	Adjustment
Function (Purpose)	Used to adjust the gamma and density. (Monochrome mode)
Section	Image process (ICU)
Item	Picture quality Density
Operation/ Procedure	1. Select the adjustment point with the scroll key. 2. Enter the adjustment value of the selected point with the 10-key and press the [OK] key. (The entered value is set.)

(Items to be set)

Display		Min. Value	Max. Value	Default
A	POINT1	245	755	500
↓	↓	↓	↓	↓
O	POINT15	245	755	500



SIMULATION NO.46-15

ENGINE COLOR BALANCE MANUAL ADJUSTMENT [ALL(B/W)]

A: 500 [245 ～ 755]

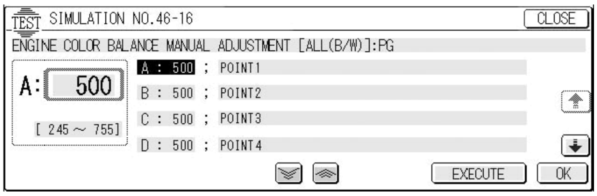
A : 500 ; POINT1
B : 500 ; POINT2
C : 500 ; POINT3
D : 500 ; POINT4

46 -16

Purpose	Adjustment
Function (Purpose)	Used to adjust the gamma and density. (Monochrome mode) (The adjustment check pattern is printed.)
Section	Image process (ICU)
Item	Picture quality Density
Operation/ Procedure	1. Select the adjustment point with the scroll key. 2. Enter the adjustment value of the selected point with the 10-key and press the [OK] key. (The entered value is set.) When the [EXECUTE] key is pressed, the color balance adjustment check pattern corresponding to the entered adjustment value is printed.

(Items to be set)

Display		Min. Value	Max. Value	Default
A	POINT1	245	755	500
↓	↓	↓	↓	↓
O	POINT15	245	755	500



SIMULATION NO.46-16

ENGINE COLOR BALANCE MANUAL ADJUSTMENT [ALL(B/W)]:PG

A: 500 [245 ～ 755]

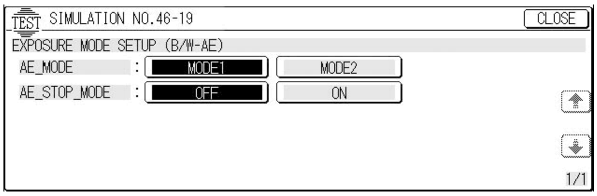
A : 500 ; POINT1
B : 500 ; POINT2
C : 500 ; POINT3
D : 500 ; POINT4

46 -19

Purpose	Adjustment
Function (Purpose)	Used to select the half-tone density (gamma) in the auto exposure mode and to set the auto exposure operation mode.
Section	Image process (ICU)
Item	Picture quality Color balance
Operation/ Procedure	1. Set the half-tone density (Gamma) with the [MODE1] key and the [MODE2] key. 2. Set the auto exposure operation mode with [ON] / [OFF]key.

Display	Set mode	Content	Destination	Default
AE MODE	MODE 1 (AUTO 1)	The half-tone density is higher than that of AUTO 2 mode.	Japan	Japan: MODE 1 (AUTO 1) Except Japan: MODE 2 (AUTO 2)
	MODE 2 (AUTO 2)	The half-tone density is lower than that of AUTO 1 mode.	Except Japan	

Display	Set mode	Content	Default
AE STOP MODE	OFF	Auto density (exposure) control is performed in real time. (The density level is changed in real time according to the document pattern.)	OFF
	ON	The density at the tip of a document is scanned, and the overall density (exposure) level is determined according to the density at the tip. (The overall density level is fixed.)	



SIMULATION NO.46-19

EXPOSURE MODE SETUP (B/W-AE)

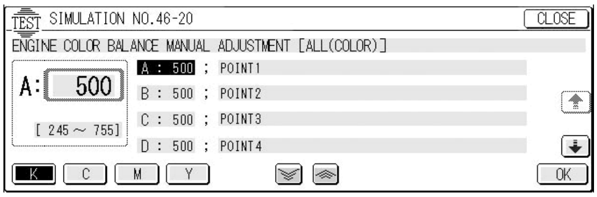
AE_MODE : MODE1 MODE2
AE_STOP_MODE : OFF ON

46 -20

Purpose	Adjustment
Function (Purpose)	Used to adjust copy color balance (All color copy mode gamma/density adjustment) (All color copy mode color balance/gamma/density are changed.) Same as SIM 46-21, however, printing is not performed.
Section	Image process (ICU)
Item	Picture quality Color balance
Operation/ Procedure	1. Select the color to be adjusted with the color key (K/C/M/Y). 2. Select the adjustment point with the scroll key. 3. Enter the adjustment value of the selected point with the 10-key and press the [OK] key. (The entered value is set.)

(Items to be set)

Display		Min. Value	Max. Value	Default
A	POINT1	245	755	500
↓	↓	↓	↓	↓
O	POINT15	245	755	500



SIMULATION NO.46-20

ENGINE COLOR BALANCE MANUAL ADJUSTMENT [ALL(COLOR)]

A: 500 [245 ～ 755]

A : 500 ; POINT1
B : 500 ; POINT2
C : 500 ; POINT3
D : 500 ; POINT4

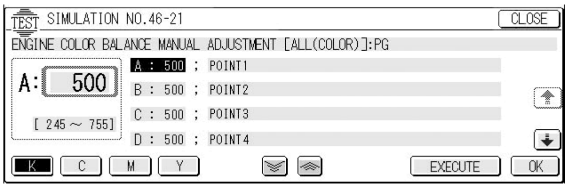
46 -21

Purpose	Adjustment
Function (Purpose)	Used to adjust copy color balance (All color copy mode gamma/density adjustment) (All color copy mode color balance/gamma/density are changed.)
Section	Image process (ICU)
Item	Picture quality Color balance

Operation/ Procedure	1. Select the color to be adjusted with the color key (K/C/M/Y). 2. Select the adjustment point with the scroll key. 3. Enter the adjustment value of the selected point with the 10-key and press the [OK] key. (The entered value is set.) When the [EXECUTE] key is pressed, the color balance adjustment check pattern corresponding to the entered adjustment value is printed.

(Items to be set)

Display		Min. Value	Max. Value	Default
A ↓ O	POINT1 ↓ POINT15	245 ↓ 245	755 ↓ 755	500 ↓ 500


SIMULATION NO.46-21

ENGINE COLOR BALANCE MANUAL ADJUSTMENT [ALL(COLOR)]:PG

A: 500

[245 ~ 755]

A : 500 ; POINT1

B : 500 ; POINT2

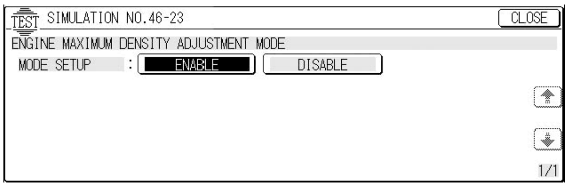
C : 500 ; POINT3

D : 500 ; POINT4

46 -23

Purpose	Setting
Function (Purpose)	Used to set Enable/Disable of half-tone high-density correction.
Item	Picture quality Color balance
Operation/ Procedure	[ENABLE]: Correction is enabled. [DISABLE]: Correction is disabled. Default set: DISABLE

When tone gap occurs in the high density area in the photo copy mode, set this function to ENABLE, and the max. density level will fall, reducing tone gap.


SIMULATION NO.46-23

ENGINE MAXIMUM DENSITY ADJUSTMENT MODE

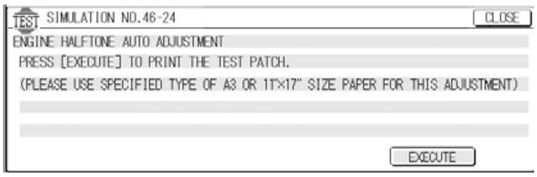
MODE SETUP : ENABLE DISABLE

46 -24

Purpose	Adjustment
Function (Purpose)	Used to adjust the copy color balance automatically. (All color copy mode gamma/density adjustment)
Item	Picture quality Color balance
Operation/ Procedure	1. Press the [EXECUTE] key. (A3 or 11 x 17 paper is automatically selected.) The color patch image (adjustment pattern) is printed.

2. Set the color patch image printed in procedure 1 on the document table.
3. Press the FACTORY key on the operation panel, and press the [EXECUTE] key.
   The copy color balance adjustment (step 1) is automatically performed and the color balance check patch image is printed.
4. Press the REPEAT key on the operation panel.
5. Press the [EXECUTE] key.
   The color patch image (adjustment pattern) is printed.
6. Set the color patch image (adjustment pattern) printed in procedure 5 on the document table. (Place the darker patch on the left side.)
7. Press the FACTORY key on the operation panel, and press the [EXECUTE] key.
   The copy color balance adjustment (step 2) is automatically performed and the color balance check patch image is printed.
8. Press the [OK] key on the operation panel.

The initial setting of the half-tone image correction is performed according to this adjustment data.


SIMULATION NO.46-24

ENGINE HALFTONE AUTO ADJUSTMENT

PRESS [EXECUTE] TO PRINT THE TEST PATCH.

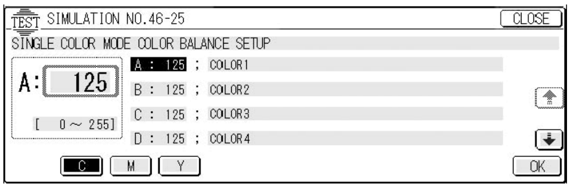
(PLEASE USE SPECIFIED TYPE OF A3 OR 11"×17" SIZE PAPER FOR THIS ADJUSTMENT)

46 -25

Purpose	Adjustment
Function (Purpose)	Used to adjust copy color balance (Single color mode)
Section	Image process (ICU)
Item	Picture quality Color balance
Operation/ Procedure	1. Select the color to be adjusted with the color key (C/M/Y). 2. Select the adjustment point with the scroll key. 3. Enter the adjustment value of the selected point with the 10-key and press the [OK] key. (The entered value is set.)

(Items to be set)

Display		Content	Min. Value	Max. Value	Default		
					C	M	Y
A	COLOR1	RED	0	255	0	255	255
B	COLOR2	GREEN	0	255	255	0	255
C	COLOR3	BLUE	0	255	255	255	0
D	COLOR4	YELLOW	0	255	0	0	255
E	COLOR5	MAGENTA	0	255	0	255	0
F	COLOR6	CYAN	0	255	255	0	0


SIMULATION NO.46-25

SINGLE COLOR MODE COLOR BALANCE SETUP

A: 125

[0 ~ 255]

A : 125 ; COLOR1

B : 125 ; COLOR2

C : 125 ; COLOR3

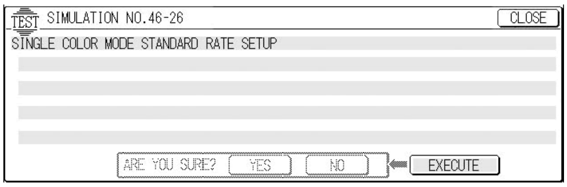
D : 125 ; COLOR4

46 -26

Purpose	Adjustment
Function (Purpose)	Used to set the copy color balance adjustment to the default. (Single color copy mode)
Section	Image process (ICU)
Item	Picture quality Color balance
Operation/ Procedure	1. Press the [EXECUTE] key. (YES/NO keys are displayed.) 2. Press the [YES] key, and the copy color balance is set to the default. (Press the [NO] key to cancel.)

(Standard value reset items)

1. RED setup ratio
2. GREEN setup ratio
3. BLUE setup ratio
4. YELLOW setup ratio
5. MAGENTA setup ratio
6. CYAN setup ratio


SIMULATION NO.46-26

SINGLE COLOR MODE STANDARD RATE SETUP

ARE YOU SURE?

46 -27

Purpose	Adjustment	
Function (Purpose)	Used to adjust the gamma/density in the black edge section of the copy mode image. (Black text and black line reproduction adjustment)	
Section	Image process (ICU)	
Item	Picture quality	Color balance
Operation/ Procedure	1. Select the color to be adjusted with the color key (C/ M/Y). 2. Select the adjustment item with the scroll key.	

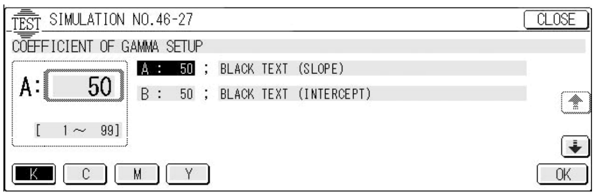
3. Enter the adjustment value of the selected point with the 10-key and press the [OK] key. (The entered value is set.)

Text and line edge area reproduction is adjusted by changing the gamma and the overall density level in the image edge section. For especially thin text, the boldness of lines is changed.

The greater the adjustment value is, the higher the image density in the edge area is, and vice versa.

(Items to be set)

Display		Content	Min. Value	Max. Value	Default
A	BLACK TEXT (SLOPE)	Black image edge section gamma (tilt) adjustment (Black text and black line reproduction adjustment)	1	99	50
B	BLACK TEXT (INTERCEPT)	Black image edge section density (overall level) adjustment (Black text and black line reproduction adjustment)	1	99	50


SIMULATION NO.46-27

COEFFICIENT OF GAMMA SETUP

A : 50 ; BLACK TEXT (SLOPE)

B : 50 ; BLACK TEXT (INTERCEPT)

A: 50

[1～ 99]

46 -28

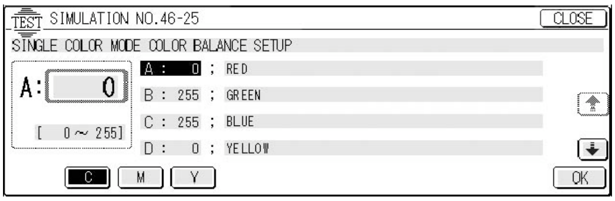
Purpose	Adjustment	
Function (Purpose)	Used to check pre-scanning operation for automatic recognition of document in the color auto copy mode. (This simulation is used only in production, and not used in the market.)	
Section	Image process (ICU)	
Item	Picture quality	Color balance
Operation/ Procedure	1. Select the item to be set with the scroll key. 2. Enter the set value of the selected item with the 10-key and press the [OK] key. (The scan area is set.)	

3. Press the [EXECUTE] key to scan the area corresponding to the set scan area. Then the scan information is displayed.
   Press [SETUP] key to return to the initial display. (Set content display)

Though the above set value is changed, the document auto recognition is not affected in an actual color auto copy mode.

(Items to be set)

Display		Content	Min. Value	Max. Value	Default
A	ORIGINAL MAIN SIZE (mm)	Main scanning document size (mm)	100	297	297
B	ORIGINAL SUB SIZE (mm)	Sub scanning document size	139	432	210


SIMULATION NO.46-25

SINGLE COLOR MODE COLOR BALANCE SETUP

A : 0 ; RED

B : 255 ; GREEN

C : 255 ; BLUE

D : 0 ; YELLOW

A: 0

[0～ 255]

46 -33

Purpose	Setting
Function (Purpose)	Used to set the foundation process conditions in the color auto copy mode, the image auto recognition conditions, and the text recognition conditions.
Section	Image process (ICU)
Item	Picture quality
Operation/ Procedure	(Foundation removal operation condition setting) 1. Select the COLOR AE mode. 2. Remove the foundation. 3. Select the setting mode with the scroll key. A. Foundation process judgment level setting (Judged by the ratio of printed photo in the document (ratio of dots areas).) B. Foundation process judgment level setting (Judged by the ratio of color phase in the document foundation.) C. Foundation removal quantity setting 4. Enter the set value and press the [OK] key to set the entered value.

(Relationship between the set value and foundation removal operation)

Display	Set value (Display)		Ratio of printed photo in the document (Ratio of dot areas)			
			None or little	Little – Medium	Medium – Much	Very much
A	0	LOW	NO	NO	NO	NO
	1	RATHER LOW	YES	NO	NO	NO
	2 (Default)	MIDDLE	YES	YES	NO	NO
	3	RATHER HIGHT	YES	YES	YES	NO
	4	HIGHT	YES	YES	YES	YES

Display	Set value (Display)		Color phase in the document			
			None or Weak	Weak – Medium	Medium – Strong	Very strong
B	0	LOW	NO	NO	NO	NO
	1	RATHER LOW	YES	NO	NO	NO
	2 (Default)	MIDDLE	YES	YES	NO	NO
	3	RATHER HIGHT	YES	YES	YES	NO
	4	HIGHT	YES	YES	YES	YES

YES: Foundation removal is performed.
NO: Foundation removal is not performed.

(Foundation removal quantity setting)

Display		Set value (Display)	Foundation removal quantity
C	–4	0	Little ↑
	–3	1	
	–2	2	
	–1	3	
	0	4 (Default)	
	+1	5	
	+2	6	
	+3	7	↓
	+4	8	Much

Whether the foundation removal is performed or not is determined by the AND condition of the set items A and B.

(Image auto recognition condition setting)

Used to set whether the text area is regarded important or not in judgment of printed photo and the text/printed photo or photograph and text/photograph.

1. Select the ORG RECOG mode.
2. Enter the set value with the 10-key and press the [OK] key to set the entered value.

Display	Set value			Content
A	TEXT PRIORITY MODE	0	DISABLE	There must be considerable level of text area to judge as text/ printed photo or text/ photograph.
		1 (Default)	ENABLE	Only a light level of text area is enough for judging as text/printed photo or text/photograph.

(Text-on-dots recognition condition setting)

Used to set whether the text on dots is recognized as text or not.

1. Select the SEG mode.
2. Enter the set value with the 10-key and press the [OK] key to set the entered value.

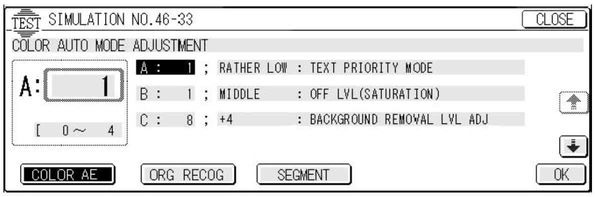
Display	Set value		Content
A	0 (Default)	OFF	Text on dots is not recognized as text.
		ENABLE	Text on dots is recognized as text. (Priority is placed on the reproduction of text.) Note that a dark density image may be copied as black.

(Setting the reproduction (text recognition level) of text on dots of a document printed by the printer)

If text recognition is not performed normally, the text recognition level can be adjusted. This function is effective especially when copying a document printed by an inkjet printer or a laser printer.

1. Select the SEG mode.
2. Select the setting mode B with the scroll key.
3. Enter the set value with the 10-key and press the [OK] key to set the entered value.

Display	Set value		Content
B	0 (Default)	OFF	Normal mode (Normal text recognition level) Depending on the type of documents, text images may be with sharp edges and high contrast.
	1	ON	Mode for documents printed by a printer: Documents are copied in a similar picture quality. (Low text recognition level)



SIMULATION NO.46-33

COLOR AUTO MODE ADJUSTMENT

A: 1

[0 ~ 4

A : 1 ; RATHER LOW : TEXT PRIORITY MODE

B : 1 ; MIDDLE : OFF LVL(SATURATION)

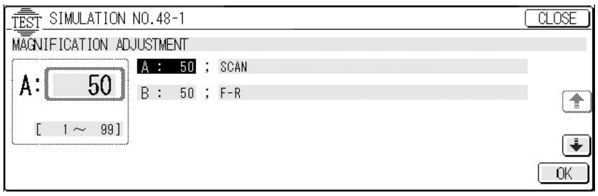
C : 8 ; +4 : BACKGROUND REMOVAL LVL ADJ

48

48 -1

Purpose	Adjustment
Function (Purpose)	Used to adjust the copy magnification ratio (main scanning and sub scanning directions).
Item	Picture quality Size/magnification ratio
Operation/ Procedure	1. Select the adjustment mode with the scroll key. 2. Enter the adjustment value with the 10-eky and press the [OK] key to set the entered value.

a. Sub scanning direction magnification ratio adjustment: By changing the scanning speed in the paper transport direction, the print magnification of images in the paper transport direction is adjusted.
   [Adjustment range]: 35 ~99 (Default: 50)
b. Main scanning direction magnification ratio adjustment. The print magnification ratio in the vertical direction of images (vertical to the paper transport direction) is adjusted by software in the (F/R) image process section.
   [Adjustment range]: 1~99 (Default: 50)



SIMULATION NO.48-1

MAGNIFICATION ADJUSTMENT

A: 50

[1 ~ 99]

A : 50 ; SCAN

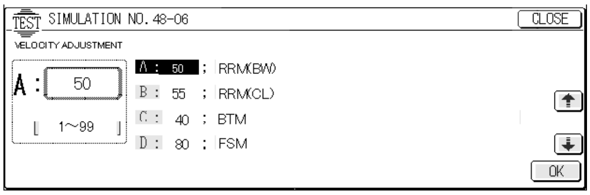
B : 50 ; F-R

48 -6

Purpose	Adjustment
Function (Purpose)	Used to adjust each motor RPM.
Item	Operation
Operation/ Procedure	1. Select the motor to be adjusted with the scroll key. 2. Enter the adjustment value with the 10-key and press the [OK] key to set the entered value.

(Items to be set)

Item		Set range	Default
A	RRM (BW)	1 – 99	50
B	RRM (CL)	1 – 99	50
C	BTM	1 – 99	44
D	FSM	1 – 99	80
E	DM (BW)	1 – 99	60
F	DM (CL)	1 – 99	60
G	PFM_CS	1 – 99	55
H	PFM_MAN	1 – 99	70
I	FSM(L)	1 – 99	85
J	FSM(FSM(HEAVY PAPER)	1 – 99	85
K	FSM(ENV)	1 – 99	70
L	PFM_CS(DESK)	1 – 99	55
M	PFM_CS(ADU)	1 – 99	55
N	PFM_CS(LCC)	1 – 99	55

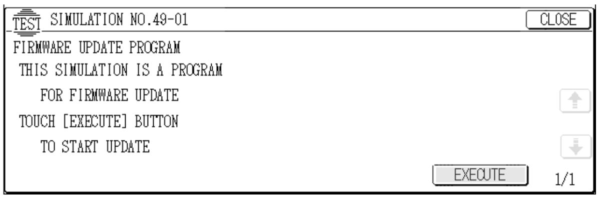


SIMULATION NO.48-06
VELOCITY ADJUSTMENT
A : 50
[1~99]
A : 50 ; RRM(BW)
B : 55 ; RRM(CL)
C : 40 ; BTM
D : 80 ; FSM

49

49 -1

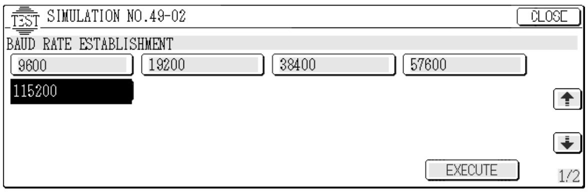
Purpose	Version up
Function (Purpose)	Used for firmware version up (Machine/FAX).
Section	Firmware (Machine/FAX)
Item	Operation
Operation/ Procedure	1. Press the [EXECUTE] key to enter the Flash ROM writing mode. 2. Start the download program on the PC side and perform Flash ROM writing.



SIMULATION NO.49-01
FIRMWARE UPDATE PROGRAM
THIS SIMULATION IS A PROGRAM
FOR FIRMWARE UPDATE
TOUCH [EXECUTE] BUTTON
TO START UPDATE

49 -2

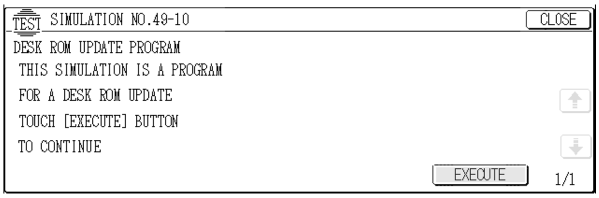
Purpose	Version up
Function (Purpose)	Used to set the data communication speed in version up of the machine firmware.
Section	Firmware
Item	Operation
Operation/ Procedure	Press the key corresponding to the data communication speed on the PC side. Unit (bps: bit per second)



SIMULATION NO.49-02
BAUD RATE ESTABLISHMENT

49 -10

Purpose	Version up
Function (Purpose)	Used for firmware version up (Desk unit).
Section	Firmware (Desk unit)
Item	Operation
Operation/ Procedure	1. Press the [EXECUTE] key to enter the Flash ROM writing mode. 2. Start the download program on the PC side and perform Flash ROM writing.



SIMULATION NO.49-10
DESK ROM UPDATE PROGRAM
THIS SIMULATION IS A PROGRAM
FOR A DESK ROM UPDATE
TOUCH [EXECUTE] BUTTON
TO CONTINUE

50

50 -1

Purpose	Adjustment
Function (Purpose)	Used to adjust the copy image position and the void area (image loss) on print paper in the copy mode. (The similar adjustment can be made also by SIM 50-2 (Simple method).)
Item	Picture quality Image position
Operation/ Procedure	1. Select the adjustment item with the scroll key. 2. Enter the adjustment value with the 10-key. 3. Press the [OK] key.

Display		Content	Min. Value	Max. Value	Default
A	RRC-A	Document lead edge reference position	1	80	50
B	RRC-B	Paper lead edge position	1	99	50
C	DEN-A	Lead edge void area	1	99	40
D	DEN-B	Rear edge void area	1	99	40
E	IMAGE LOSS	Lead edge image loss	0	99	40

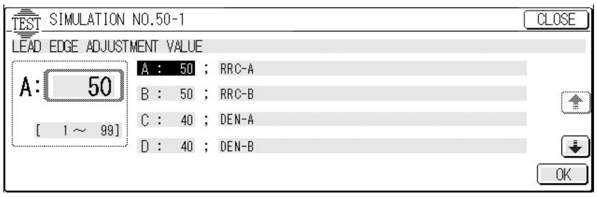
A. Document lead edge reference position --- (RRC-A) This set value is used to adjust timing from when the document scanning is started to when the image lead edge signal
(Set range: 1 – 30) (Default value: 50)

B. Paper lead edge position --- (RRC-B) Used to adjust timing of turning on the resist roller after receiving the resist signal (LD_START).
(Set range: 1 – 99) (Default value: 50)

C. Lead edge void area --- (DEN-A) Used to specify the void area at the lead edge of the document.
(Set range: 1=99) (Default value: 40)

D. Rear edge void area --- (DEN-B) Used to specify the void area at the rear edge of the document.
(Set range: 1 – 99) (Default value: 30)

E. Lead edge image loss --- (IMAGE LOSS) Used to specify the image loss.
(Set range: 0~99) (Default value: 40)



SIMULATION NO.50-1
LEAD EDGE ADJUSTMENT VALUE
A: 50
[1~ 99]
A : 50 ; RRC-A
B : 50 ; RRC-B
C : 40 ; DEN-A
D : 40 ; DEN-B

50 -2

Purpose	Adjustment
Function (Purpose)	Used to adjust the copy image position and the void area (image loss) on print paper in the copy mode. (Simple method) (The same content of SIM 50-1. However this simulation is easier to perform.)
Item	Picture quality Image position

Operation/ Procedure

1. Select the adjustment item with the scroll key.
2. Enter the adjustment value with the 10-key.
3. Press the [OK] key.

This simulation is used to perform the lead edge adjustment by directly entering the lead edge shift in 400% copy.

Display		Content	Min. Value	Max. Value	Default
A	L1	Document lead edge reference position	0	999	240
B	L2	Paper lead edge position	0	999	40
C	DEN-A	Lead edge void area	1	99	40
D	DEN-B	Rear edge void area	1	99	40
E	IMAGE LOSS	Document lead edge image loss adjustment value	0	99	40

(Default values)

A. Document lead edge reference position --- (L1) 240
B. Paper lead edge position --- (L2) 40
C. Lead edge void area --- (DEN-A) 40
D. Rear edge void area --- (DEN-B) 40
E. IMAGE LOSS --- 40

50 -5

Purpose	Adjustment
Function (Purpose)	Used to adjust the image position and print area in the sub scanning direction. (Print engine section)
Section	ICU/Printer
Item	Picture quality

Operation/ Procedure

1. Select the adjustment mode (DEN-B/DEN-C) with the scroll key.
2. Enter the adjustment value of the selected point with the 10-key, and press the [OK] key. (The entered adjustment value is set. The [EXECUTE] key or the scroll key can be used instead of the [OK] key in the above procedure.)
3. Select the paper feed mode.
4. Press the [EXECUTE] key.

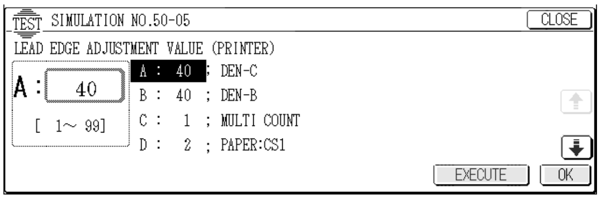
The test pattern corresponding to the entered adjustment value is printed.

When the adjustment value of item A (DEN-C) is decreased by 1, the print start position in the sub scanning direction shifts 0.125mm toward the paper lead edge.

When the adjustment value of item B (DEN-B) is decreased by 1, the print start position in the sub scanning direction shifts 0.125mm toward the paper rear edge.

(Descriptions on Set values)

Display		Content	Min. Value	Max. Value	Default
A	DEN-C	Sub scanning print lead edge adjustment	1	99	40
B	DEN-B	Sub scanning print area adjustment	1	99	40
C	MULTI COUNT	Print quantity	1	999	1
D	PAPER	Paper feed tray selection (MFT, CS1, CS2, CS3, CS4, LCC)	1	6	2 (CS1)
E	EXIT TRAY	Paper exit tray selection (R, S)	1	2	1 (R)
F	DUPLEX	Duplex print selection (NO, YES)	1	2	1 (NO)



SIMULATION NO.50-05

LEAD EDGE ADJUSTMENT VALUE (PRINTER)

A : 40

[1~ 99]

A : 40 ; DEN-C
B : 40 ; DEN-B
C : 1 ; MULTI COUNT
D : 2 ; PAPER:CS1

50 -10

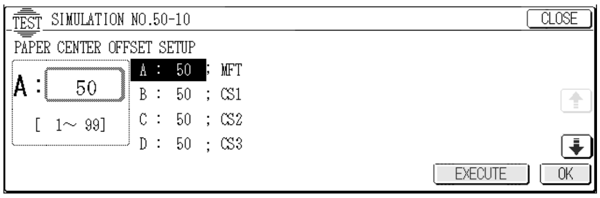
Purpose	Adjustment
Function (Purpose)	Used to adjust the print image center position. (Adjustment is performed in each paper feed position separately.)
Section	Image process (ICU)
Item	Picture quality Image position

Operation/ Procedure

1. Select the adjustment mode (DEN-B/DEN-C) with the scroll key.
2. Enter the adjustment value of the selected point with the 10-key, and press the [OK] key. (The entered adjustment value is set. The [EXECUTE] key or the scroll key can be used instead of the [OK] key in the above procedure.)
3. Press the [EXECUTE] key. The test pattern corresponding to the entered adjustment value is printed.

Display	Content	Min. value	Max. value	Default
A	MFT	Print off-center adjustment value (Manual paper feed)	1 – 99	50
B	CS1	Print off-center adjustment value (1 cassette)	1 – 99	50
C	CS2	Print off-center adjustment value (2 cassette)	1 – 99	50
D	CS3	Print off-center adjustment value (3 cassette)	1 – 99	50
E	CS4	Print off-center adjustment value (4 cassette)	1 – 99	50
F	LCC	Print off-center adjustment value (LCC)	1 – 99	50
G	ADU	Print off-center adjustment value (ADU)	1 – 99	50
H	MULTI COUNT	Print quantity	1 – 999	1
I	PAPER	Paper feed tray selection (MFT, CS1, CS2, CS3, CS4, LCC)	1 – 6	2 (CS1)
J	EXIT TRAY	Paper exit tray selection (R, S)	1 or 2	1
K	DUPLEX	Duplex print selection (NO, YES)	1 or 2	1

- When the adjustment value of items A~G is decreased by 1, the main scanning print position shifts 0.1mm toward the front side.
- When the adjustment value of items A~G is increased by 1, the main scanning print position shifts 0.1mm toward the rear side.
- To execute item G (ADU adjustment), the ADU must be installed. In this case, item K (DUPLEX) must be set to 2.



SIMULATION NO.50-10

PAPER CENTER OFFSET SETUP

A : 50

[1~ 99]

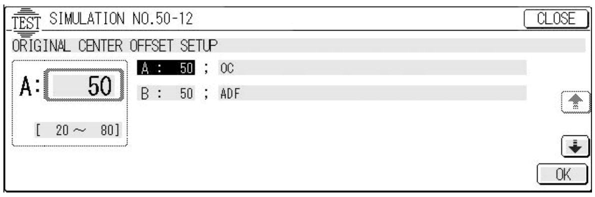
A : 50 ; MFT
B : 50 ; CS1
C : 50 ; CS2
D : 50 ; CS3

50 -12

Purpose	Adjustment
Function (Purpose)	Used to adjust the print image center position. (The adjustment is performed in each document mode separately.)
Section	Image process (ICU)
Item	Picture quality Image position
Operation/ Procedure	1. Select the adjustment mode with the scroll key. 2. Enter the adjustment value with the 10-key and press the [OK] key to set the entered value. * When the set value is increased, the image is shifted to the rear side. When the set value is decreased, the image is shifted to the front side.

(Items to be set)

Display		Content	Min. Value	Max. Value	Default
A	OC	Platen mode (Document table)	1	99	50
B	ADF	RADF mode	1	99	50



SIMULATION NO.50-12

ORIGINAL CENTER OFFSET SETUP

A: 50

[20～ 80]

A : 50 ; OC
B : 50 ; ADF

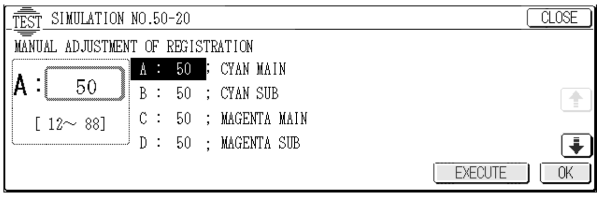
50 -20

Purpose	Adjustment
Function (Purpose)	Used to adjust the image registration. (Manual adjustment)
Item	Picture quality Image position
Operation/ Procedure	1. Select the adjustment mode (DEN-B/DEN-C) with the scroll key. 2. Enter the adjustment value of the selected point with the 10-key, and press the [OK] key. (The entered adjustment value is set.) 3. Press the [EXECUTE] key, and the registration adjustment pattern in the main scanning direction is printed.

(Set items)

Display	Content	Min. value	Max. value	Default	Display
A	MAIN-REGIST C	Main scanning direction registration adjustment (C)	12	88	50
B	SUB-REGIST C	Sub scanning direction registration adjustment (C)	1	132	50
C	MAIN-REGIST M	Main scanning direction registration adjustment (M)	12	88	50
D	SUB-REGIST M	Sub scanning direction registration adjustment (M)	1	132	50
E	MAIN-REGIST Y	Main scanning direction registration adjustment (Y)	12	88	50
F	SUB-REGIST Y	Sub scanning direction registration adjustment (Y)	1	132	50
G	MULTI COUNT	Adjustment pattern print quantity	1	999	1
H	PAPER	Paper feed tray selection 8MFT, CS1, CS2, CS3, CS4, LCC)	1	6	2 (CS1)
I	EXIT TRAY	Paper exit tray selection (R, S)	1	2	1
J	DUPLEX	Duplex print selection (NO, YES)	1	2	1

* When the adjustment value of items A, C, and E is decreased by 1, the adjustment target color image shifts by one pixel in the main scanning direction.
* When the adjustment value of items B, D, and E is decreased by 1, the adjustment target color image shifts by one pixel in the sub scanning direction.



SIMULATION NO.50-20

MANUAL ADJUSTMENT OF REGISTRATION

A : 50

[12~ 88]

A : 50 ; CYAN MAIN
B : 50 ; CYAN SUB
C : 50 ; MAGENTA MAIN
D : 50 ; MAGENTA SUB

50 -22

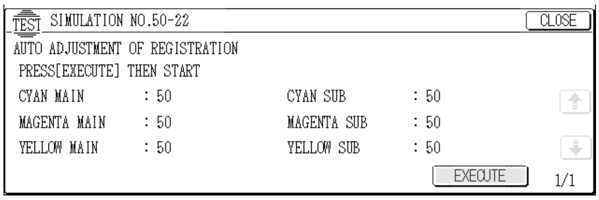
Purpose	Adjustment
Function (Purpose)	Used to adjust the image registration. (Automatic adjustment)
Item	Picture quality
Operation/ Procedure	Press the [EXECUTE] key. The color registration adjustment (automatic adjustment) in the main scanning direction and the sub scanning direction is performed. The process of the adjustment is displayed as follows: "NOW EXECUTING... S[**********]E" When the adjustment is completed, the [EXECUTE] key returns to the normal display. In case of an error, the cause is displayed.

(Display items)

Display	Content	Min. Value	Max. Value	Default
CYAN MAIN	Main scanning direction registration adjustment (C)	12	88	50
CYAN SUB	Main scanning direction registration adjustment (M)	1	132	50
MAGENTA MAIN	Main scanning direction registration adjustment (Y)	12	88	50
MAGENTA SUB	Sub scanning direction registration adjustment (C)	1	132	50
YELLOW MAIN	Sub scanning direction registration adjustment (M)	1	132	50
YELLOW SUB	Sub scanning direction registration adjustment (Y)	1	132	50

Error display	Content
SENSOR_ADJUSTMENT_ERROR	Sensor adjustment abnormality
BLACK_DENSITY_ERROR	Black density error
CYAN_DENSITY_ERROR	Cyan density error
MAGENTA_DENSITY_ERROR	Magenta density error

Error display	Content
YELLOW_DENSITY_ERROR	Yellow density error
CYAN_MAIN_FINE_ERROR	Cyan main scanning fine adjustment error
MAGENTA_MAIN_FINE_ERROR	Magenta main scanning fine adjustment error
YELLOW_MAIN_FINE_ERROR	Yellow main scanning fine adjustment error
CYAN_SUB_FINE_ERROR	Cyan sub scanning fine adjustment error
MAGENTA_SUB_FINE_ERROR	Magenta sub scanning fine adjustment error
YELLOW_SUB_FINE_ERROR	Yellow sub scanning fine adjustment error
CYAN_MAIN_ROUGH1_ERROR	Cyan main scanning rough adjustment 1 error
MAGENTA_MAIN_ROUGH1_ERROR	Magenta main scanning rough adjustment 1 error
YELLOW_MAIN_ROUGH1_ERROR	Yellow main scanning rough adjustment 1 error
CYAN_SUB_ROUGH1_ERROR	Cyan sub scanning rough adjustment 1 error
MAGENTA_SUB_ROUGH1_ERROR	Magenta sub scanning rough adjustment 1 error
YELLOW_SUB_ROUGH1_ERROR	Yellow sub scanning rough adjustment 1 error
CYAN_MAIN_ROUGH2_ERROR	Cyan main scanning rough adjustment 2 error
MAGENTA_MAIN_ROUGH2_ERROR	Magenta main scanning rough adjustment 2 error
YELLOW_MAIN_ROUGH2_ERROR	Yellow main scanning rough adjustment 2 error
CYAN_SUB_ROUGH2_ERROR	Cyan sub scanning rough adjustment 2 error
MAGENTA_SUB_ROUGH2_ERROR	Magenta sub scanning rough adjustment 2 error
YELLOW_SUB_ROUGH2_ERROR	Yellow sub scanning rough adjustment 2 error
OTHERS_ERROR	Other errors



```
TEST SIMULATION NO.50-22                                   CLOSE
AUTO ADJUSTMENT OF REGISTRATION
 PRESS[EXECUTE] THEN START
 CYAN MAIN      : 50          CYAN SUB      : 50
 MAGENTA MAIN   : 50          MAGENTA SUB   : 50
 YELLOW MAIN    : 50          YELLOW SUB    : 50
                                                 EXECUTE    1/1
```

50 -24

Purpose	Adjustment
Function (Purpose)	Used to display the adjustment data of automatic registration.
Item	Picture quality Image position
Operation/ Procedure	When [PARTCH] is selected, the patch scan data in the automatic registration adjustment performed with SIM 50-22 is displayed. When [OTHER] is selected, the sensor calibration data/ belt element data in the automatic registration adjustment performed with SIM 50-22 are displayed. 1. Select the color to be set with the color key. (CMY) 2. Select the item to be set with the scroll key.

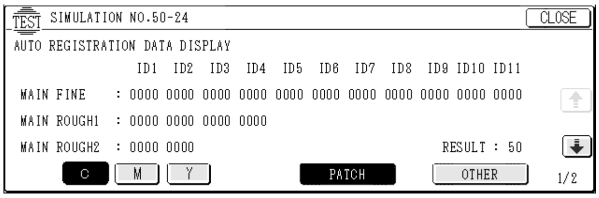
(Display items)

Display	Content	Min. Value	Max. Value
MAIN FINE	Patch scan data (11 patches) in the main scanning direction fine adjustment	0	9999
MAIN ROUGH1	Patch scan data (4 patches) in the main scanning direction rough adjustment 1	0	9999
MAIN ROUGH2	Patch scan data (2 patches) in the main scanning direction rough adjustment 2	0	9999
RESULT	Current adjustment value	1	132
SUB FINE	Patch scan data (11 patches) in the sub scanning direction fine adjustment	0	9999
SUB ROUGH1	Patch scan data (4 patches) in the sub scanning direction rough adjustment 1	0	9999
SUB ROUGH2	Patch scan data (3 patches) in the sub scanning direction rough adjustment 2	0	9999
SENSOR OUTPUT	Adjusted LED current in sensor calibration	0	255
SENSOR INPUT	Sensor transfer belt surface detection level in sensor calibration	0	255
ERROR RECODE *1	Error history (Latest 5 items)	0	99
DENSITY CHECK K	Toner patch density value (K)	0	9999
DENSITY CHECK C	Toner patch density value (C)	0	9999
DENSITY CHECK M	Toner patch density value (M)	0	9999
DENSITY CHECK Y	Toner patch density value (Y)	0	9999
REGIST COUNT	Registration count (Transfer belt mileage: A4 size is counted as 1.)	0	9999
EXECUTE COUNT	Number of execution (Number of execution / Number of execution condition)	0	9999

*1: Error code and its content

00: No error
01: Belt element defect
02: Insufficient Black patch density
03: Insufficient Cyan patch density
04: Insufficient Magenta patch density
05: Insufficient Yellow patch density
06: Main scanning direction fine adjustment Cyan patch print error
07: Main scanning direction fine adjustment Magenta patch print error
08: Main scanning direction fine adjustment Yellow patch print error
09: Sub scanning direction fine adjustment Cyan patch print error
10: Sub scanning direction fine adjustment Magenta patch print error
11: Sub scanning direction fine adjustment Yellow patch print error
12: Main scanning direction rough adjustment 1 Cyan patch print error
13: Main scanning direction rough adjustment 1 Magenta patch print error
14: Main scanning direction rough adjustment 1 Yellow patch print error
15: Sub scanning direction rough adjustment 1 Cyan patch print error
16: Sub scanning direction rough adjustment 1 Magenta patch print error
17: Sub scanning direction rough adjustment 1 Yellow patch print error
18: Main scanning direction rough adjustment 2 Cyan patch print error
19: Main scanning direction rough adjustment 2 Magenta patch print error
20: Main scanning direction rough adjustment 2 Yellow patch print error

21: Sub scanning direction rough adjustment 2 Cyan patch print error
22: Sub scanning direction rough adjustment 2 Magenta patch print error
23: Sub scanning direction rough adjustment 2 Yellow patch print error
99: Other error



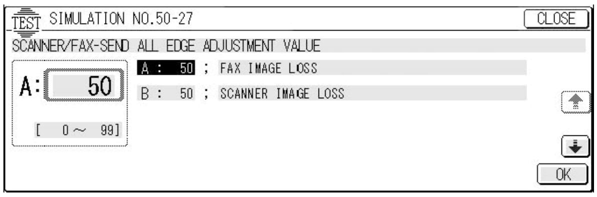
```
SIMULATION NO.50-24
AUTO REGISTRATION DATA DISPLAY
                ID1  ID2  ID3  ID4  ID5  ID6  ID7  ID8  ID9  ID10 ID11
 MAIN FINE    : 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000
 MAIN ROUGH1  : 0000 0000 0000 0000
 MAIN ROUGH2  : 0000 0000                                 RESULT : 50
```

50 -27

Purpose	Adjustment
Function (Purpose)	Used to adjust image loss in the FAX/scanner mode.
Section	FAX/Scanner
Item	Picture quality Image position
Operation/ Procedure	1. Select the adjustment mode with the scroll key. 2. Enter the adjustment value at the selected point, and press the [OK] key. The entered value is set.

When the adjustment value is changed, the image losses at the four corners are changed uniformly.

Display	Content	Min. Value	Max. Value	Default
A	FAX mode image loss	0	99	20
B	Scanner mode (all modes except for the copy mode) image loss	0	99	40



```
SIMULATION NO.50-27
SCANNER/FAX-SEND ALL EDGE ADJUSTMENT VALUE
A: 50     A : 50 ; FAX IMAGE LOSS
          B : 50 ; SCANNER IMAGE LOSS
[ 0～ 99]
```

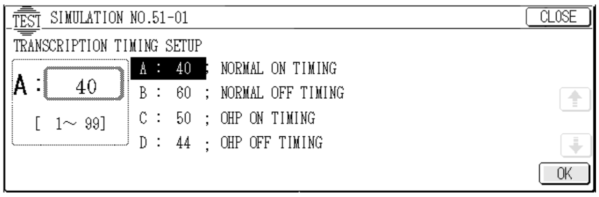
51

51 -01

Purpose	Adjustment
Function (Purpose)	Used to adjust the transfer voltage ON timing.
Section	Process (Photoconductor, developing, transfer, cleaning) Transfer
Item	Operation
Operation/ Procedure	1. Select the adjustment mode with the scroll key. 2. Enter the set value with the 10-key and press the [OK] key to set the entered value.

Item		Description on item	Set range	Default
A	NORMAL ON TIMING	Used to set the transfer ON timing for the paper lead edge except for OHP.	1 – 99	40
B	NORMAL OFF TIMING	Used to set the transfer OFF timing for the paper rear edge except for OHP.	1 – 99	60
C	OHP ON TIMING	Used to set the transfer ON timing for the lead edge of OHP.	1 – 99	50
D	OHP OFF TIMING	Used to set the transfer OFF timing for the rear edge of OHP.	1 – 99	44

- When the set value is 50 at transfer ON timing, the transfer operation is turned on immediately when the paper lead edge passes beneath the drum.
- When the set value is 50 at transfer OFF timing, the transfer operation is turned off immediately when the paper rear edge passes beneath the drum.
- When the transfer ON/OFF timing value is decreased, the transfer ON/OFF timing is advanced for the paper.
- When the transfer ON/OFF timing value is increased, the transfer ON/OFF timing is delayed for the paper.
- Change of ±1 corresponds to about 10ms. The set range is –490 to +490ms



```
SIMULATION NO.51-01
TRANSCRIPTION TIMING SETUP
A: 40     A : 40 ; NORMAL ON TIMING
          B : 60 ; NORMAL OFF TIMING
[ 1～ 99] C : 50 ; OHP ON TIMING
          D : 44 ; OHP OFF TIMING
```

51 -02

Purpose	Adjustment
Function (Purpose)	Used to adjust the contact pressure of paper on the resist roller of each section (each paper feed and duplex feed of the copier). (This adjustment is required when the print image position variations are considerably great or when paper jams occur frequently.)
Section	Paper transport (Paper exit, switchback, transport)
Item	Operation
Operation/ Procedure	1. Select the adjustment mode with the scroll key. 2. Enter the set value with the 10-key and press the [OK] key to set the entered value.

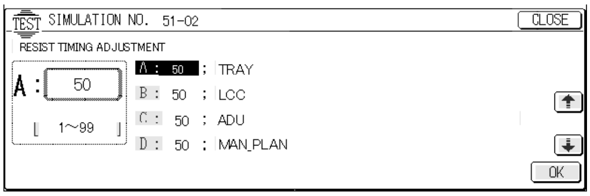
(Items to be set)

Display	Content	Min. value	Max. value	Default	Display
A	TRAY	Cassette tray resist adjustment value	1	99	25
B	LCC	LCC tray resist adjustment value	1	99	35
C	ADU	ADU resist adjustment value	1	99	30
D	MANUAL PLAIN PAPER (S)	Manual feed tray resist adjustment value (Normal paper, small size)	1	99	50
E	MANUAL HEAVY PAPER1	Manual feed tray resist adjustment value (Heavy paper 1)	1	99	50
F	MANUAL HEAVY PAPER2	Manual feed tray resist adjustment value (Heavy paper 2)	1	99	50
G	MANUAL OHP1	Manual feed tray resist adjustment value (OHP 1)	1	99	50
H	MANUAL OHP2	Manual feed tray resist adjustment value (OHP 2)	1	99	50

Display	Content	Min. value	Max. value	Default	Display
I	MANUAL ENV	Manual feed tray resist adjustment value (Envelope)	1	99	50
J	DESK(S)	Desk tray resist adjustment value (Small size)	1	99	30
K	DESK(L)	Desk tray resist adjustment value (Large size)	1	99	30
L	MANUAL PLAIN PAPER(L)	Manual feed tray resist adjustment value (Normal paper, large size)	1	99	50
M	TRAY(L)	Cassette tray deflection adjustment value (Large size)	1	99	25
N	ADU(L)	ADU deflection adjustment value (Large size)	1	99	30

- Used to set the resist roller clutch (RRC) ON timing. When the adjustment value is increased, the timing is delayed and the pressure of paper onto the resist roller is increased.
- When the set value is changed by 1, the timing is changed by about 1.0ms.

* Paper size judgment method
In the cassette tray paper feed, the paper size smaller than 170mm is regarded as the small size.
In the desk tray or ADU paper feed, the paper size of 216mm or smaller is regarded as the small size.
In the manual paper feed tray paper feed, the paper area of 49128mm² (184 x 267) or less is regarded as the small size.



SIMULATION NO. 51-02

RESIST TIMING ADJUSTMENT

A : 50

[1～99]

A : 50 ; TRAY
B : 50 ; LCC
C : 50 ; ADU
D : 50 ; MAN_PLAN

52

52 -01

Purpose	Adjustment
Function (Purpose)	Used to adjust the duplex print mode stacking capacity (Used to adjust the stop position of the duplex unit paper tray width alignment plate. The home position of the width alignment plate is changed by software.)
Section	Duplex
Item	Operation
Operation/ Procedure	1. Select the adjustment mode with the scroll key. * When the machine is not ready for paper feed, "NOT READY" is displayed. When the corresponding tray is unable to feed, "FEED UNABLE" is displayed. If it is able to feed, "FEED ABLE" is displayed.

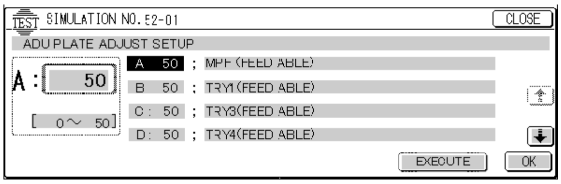
2. Enter the set value with the 10-key and press the [OK] key to set the entered value.
3. Press the [EXECUTE] key.
   * If there is no paper on the duplex tray, one sheet of the selected paper is fed and transported to the duplex tray. Then the entered value in procedure 3 is set and the alignment plate moves according to the home position corresponding to the entered value.

* The paper sizes which can be used for transport and alignment plate adjustment with SIM52-01 are LT, LTR, A4, A4R, B5, B5R, 16K, and 16KR only. (For the other sizes, "FEED ENABLE" occurs.)

(Set items)

	Item	Set range	Default
A	Intermediate tray alignment plate adjustment value (Manual feed)	0 – 99	50
B	Intermediate tray alignment plate adjustment value (Cassette 1)	0 – 99	50
C	Intermediate tray alignment plate adjustment value (Cassette 3)	0 – 99	50
D	Intermediate tray alignment plate adjustment value (Cassette 4)	0 – 99	50
E	Intermediate tray alignment plate adjustment value (LCC)	0 – 99	50

- When the set value is changed by 1, it is changed by about 0.2mm. When the set value is increased, the alignment plate paper width is narrowed. The adjustment value can be adjusted in the increment of ±50 with 50 as the center value.



SIMULATION NO. 52-01

ADU PLATE ADJUST SETUP

A : 50

[0～ 50]

A 50 ; MPF (FEED ABLE)
B 50 ; TRY1(FEED ABLE)
C : 50 ; TRY3(FEED ABLE)
D : 50 ; TRY4(FEED ABLE)

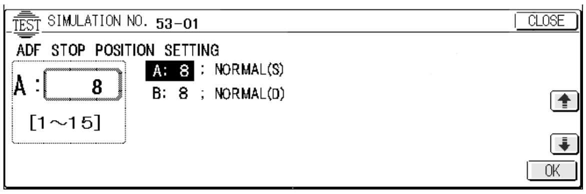
53

53 -01

Purpose	Adjustment
Function (Purpose)	Used to adjust the document stop position in each operation mode of the RADF.
Section	RADF
Item	Operation
Operation/ Procedure	1. Select the adjustment mode with the scroll key. 2. Enter the set value with the 10-key and press the [OK] key to set the entered value. This simulation is used to adjust the stop timing of the document transport belt.

(Items to be set)

	Item		Set range	Default
A	NORMAL (S)	Document stop position adjustment with normal paper in single copy	1 – 15	8
B	NORMAL (D)	Document stop position adjustment with normal paper in duplex copy	1 – 15	8



SIMULATION NO. 53-01

ADF STOP POSITION SETTING

A : 8

[1～15]

A: 8 ; NORMAL(S)
B: 8 ; NORMAL(D)

53 -02

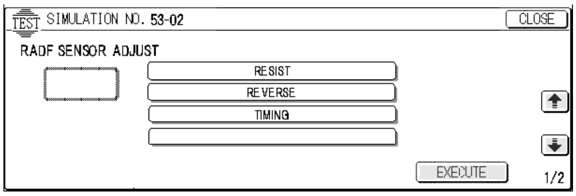
Purpose	Adjustment
Function (Purpose)	Used to adjust the optical sensor sensitivity in RADF.
Section	RADF
Item	Operation
Operation/ Procedure	1. The sensor names are displayed. Select the sensor to be adjusted with the key.

2. Press the [EXECUTE] key. The adjustment of the sensor selected in procedure 1 is started. During execution of the adjustment, the [EXECUTE] key is highlighted. If the [EXECUTE] key is pressed under this state, the adjustment can be interrupted.

* After completion of the adjustment, the COMPLETE display is shown. In case of an abnormality, the INCOMPLETE display is shown.

(Set items (sensors))

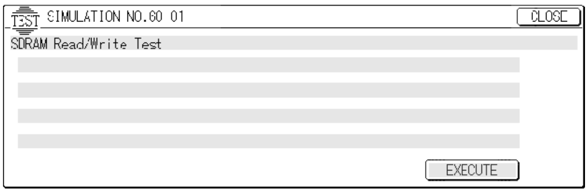
Display	Content	Note
RESIST	Resist sensor	
REVERSE	Reverse sensor	
TIMING	Timing sensor	
TRAYVOLA4R	Tray A4R (11 x 8.5R) width sensor	After selecting TRAYVOLA4R, set the tray document guide to A4R (11 x 8.5R) position, and press the [EXECUTE] key.
TRAYVOLMIN	Tray paper min. width detection	After selecting TARYVOLMIN, set the tray document guide to the minimum width position, and press the [EXECUTE] key.
TRAYVOLMAX	Tray paper max. width detection	After selecting TARYVOLMAX, set the tray document guide to the maximum width position, and press the [EXECUTE] key.
TRAYVOLB5	Tray B5 width detection	After selecting TARYVOLB5, set the tray document guide to the A4R (11 x 8.5R) width position, and press the [EXECUTE] key.



60

60 -01

Purpose	Operation test/check
Function (Purpose)	Used to check the operation of ICU PWB image DRAM read/write.
Section	ICU (Memory)
Item	Operation
Operation/ Procedure	Press the [EXECUTE] key, and memory read/write operation check is started. After completion of check, the result is displayed with NG or OK.



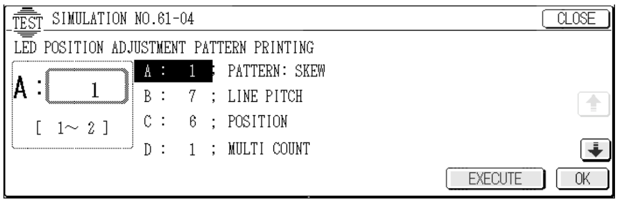
61

61 -04

Purpose	Adjustment
Function (Purpose)	Used to adjust the scanner (writing) unit (LED array unit) skew.
Section	Scanner (writing)
Item	Operation
Operation/ Procedure	1. Set the print conditions of the scanner (writing) unit (LED array unit) skew adjustment pattern. 2. Press the [EXECUTE] key. The scanner (writing) unit (LED array unit) skew adjustment pattern is printed.

(Items to be set)

Display		Content	Min. Value	Max. Value	Default
A	PATTERN	Print pattern specification 1: SKEW--- Used to check scan tilt. 2: FOCUS --- Used to check/adjust focus.	1	2	1
B	LINE PITCH	Dot print width (N-1) specification	1	10	7
C	POSITION	Pattern output area selection	1	12	6
D	MULTI COUNT	Print quantity	1	999	1
E	PAPER	Paper feed tray selection (MFT, CS1,CS2, CS3, CS4, LCC)	1	6	2 (CS1)
F	EXIT TRAY	Paper exit tray selection (R, S)	1	2	1 (R)



A : 1

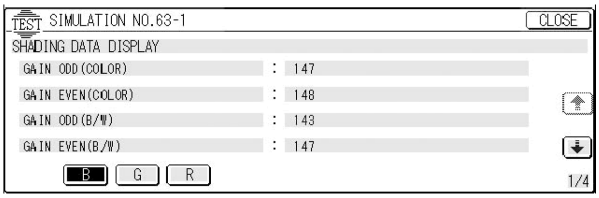
[1～ 2]

A : 1 ; PATTERN: SKEW
B : 7 ; LINE PITCH
C : 6 ; POSITION
D : 1 ; MULTI COUNT

63

63 -01

Purpose	Adjustment/Setting/Operation data output, check (display, print)
Function (Purpose)	Used to check the result of shading correction. (The shading correction data are displayed.)
Section	Scanner (Exposure)
Item	Operation
Operation/ Procedure	Used to display the latest shading correction result. Data for each color can be separately checked with the color keys. 1. Select the color to be set with the color keys (CMY). 2. The display page can be shifted with the scroll key.



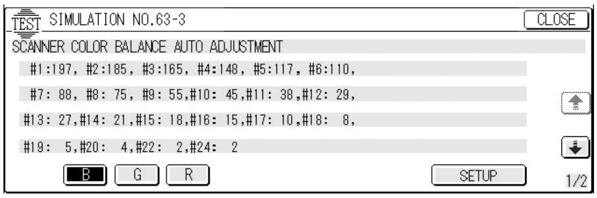
SIMULATION NO.63-1

SHADING DATA DISPLAY

GAIN ODD(COLOR) : 147
GAIN EVEN(COLOR) : 148
GAIN ODD(B/W) : 143
GAIN EVEN(B/W) : 147

63 -03

Purpose	Adjustment	
Function (Purpose)	Used to adjust the CCD color balance (gamma).	
Section	Scanner (Image scanning)	
Item	Picture quality	Color balance
Operation/ Procedure	Set the SIT chart (UKOG-0280FCZZ) on the document table, and press the [EXECUTE] key. The color coefficient automatic adjustment pattern reading is started to calculate and display the color coefficient data. The color coefficient data of each color can be displayed with the color key.	



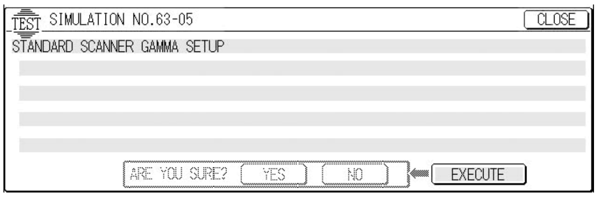
SIMULATION NO.63-3

SCANNER COLOR BALANCE AUTO ADJUSTMENT

#1:197, #2:185, #3:165, #4:148, #5:117, #6:110,
#7: 88, #8: 75, #9: 55,#10: 45,#11: 38,#12: 29,
#13: 27,#14: 21,#15: 18,#16: 15,#17: 10,#18: 8,
#19: 5,#20: 4,#22: 2,#24: 2

63 -05

Purpose	Setting	
Function (Purpose)	Used to set the CCD color balance (gamma) default.	
Section	Scanner (Image scanning)	
Item	Picture quality	Color balance
Operation/ Procedure	1. Press the [EXECUTE] key, and the [YES] and [NO] keys become active. 2. When the [YES] key is pressed, the CCD color balance value is set to the default.	

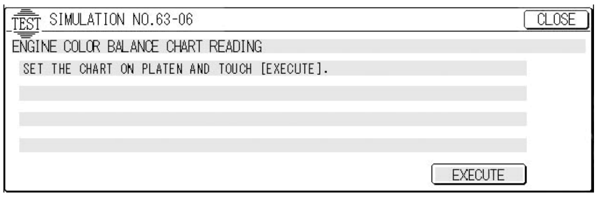


SIMULATION NO.63-05

STANDARD SCANNER GAMMA SETUP

63 -06

Purpose	Adjustment/Operation data output check (display, print)	
Function (Purpose)	Used to check the color balance (gamma) check patch.	
Section	Image process (ICU)	
Item	Picture quality	Color balance
Operation/ Procedure	1. Set the color balance check patch printed with SIM 46-21 on the document table. 2. Press the [EXECUTE] key, and the reading is started and the data are displayed on the display.	



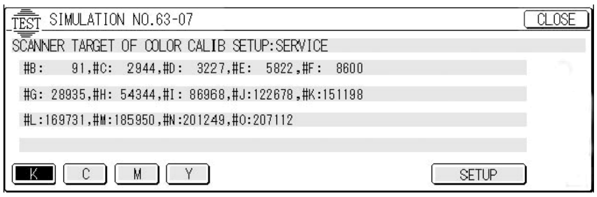
SIMULATION NO.63-06

ENGINE COLOR BALANCE CHART READING

SET THE CHART ON PLATEN AND TOUCH [EXECUTE].

63 -07

Purpose	Setting	
Function (Purpose)	Used to set the target color balance (gamma) for auto color balance adjustment. The standard color balance (gamma) or an optional color balance (gamma) is set as the service target.	
Section	Image process (ICU)	
Item	Picture quality	Color balance
Operation/ Procedure	1. In the copy color balance adjustment (manual adjustment) (SIM 46-21) mode, the color patch image (adjustment pattern) is outputted. (This must be adjusted properly.) 2. Press the [SETUP] key. 3. Set the color patch image (adjustment pattern) paper printed in the copy color balance adjustment (manual adjustment) (SIM 46-21) mode on the document table. 4. Press the [EXECUTE] key. The color patch image (adjustment pattern) is read. 5. Press the REPEAT key and perform procedure 4 again. 6. Press the [OK] key. The color balance corresponding to the color patch image (adjustment pattern) printed in the copy color balance adjustment (manual adjustment) is set as the service target.	



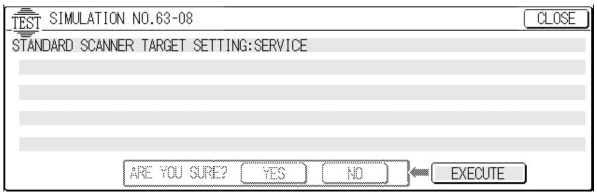
SIMULATION NO.63-07

SCANNER TARGET OF COLOR CALIB SETUP:SERVICE

#B: 91,#C: 2944,#D: 3227,#E: 5822,#F: 8600
#G: 28935,#H: 54344,#I: 86968,#J:122678,#K:151198
#L:169731,#M:185950,#N:201249,#O:207112

63 -08

Purpose	Setting	
Function (Purpose)	Used to set the target color balance (gamma) for auto color balance adjustment (SIM 46-24). The service target is set to the default (standard) color balance (gamma).	
Section	Scanner (Image scanning)	
Item	Picture quality	Color balance
Operation/ Procedure	1. Press the [EXECUTE] key. 2. Press the [YES] key. The service target is set to the default (standard) color balance (gamma).	

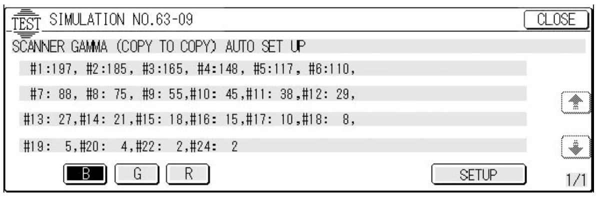


SIMULATION NO.63-08

STANDARD SCANNER TARGET SETTING:SERVICE

63 -09

Purpose	Setting
Function (Purpose)	Used to adjust the CCD gamma (CCD calibration) (copy document mode).
Section	Scanner (Image scanning)
Item	Picture quality Color balance
Operation/ Procedure	1. Set the SIT chart (UKOG-0280FCZZ) on the document table, and make a copy in the manual photo mode. 2. Set the copied SIT chart on the document table. 3. Enter the simulation 63-9 mode. 4. Press the [EXECUTE] key. The color coefficient automatic adjustment pattern reading is started to calculate and display the color coefficient data. The color coefficient data of each color can be displayed with the color key.



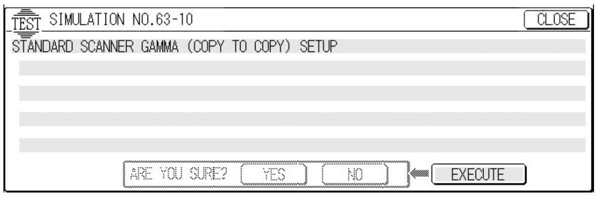
SIMULATION NO.63-09

SCANNER GAMMA (COPY TO COPY) AUTO SET UP

```
#1:197, #2:185, #3:165, #4:148, #5:117, #6:110,
#7: 88, #8: 75, #9: 55,#10: 45,#11: 38,#12: 29,
#13: 27,#14: 21,#15: 18,#16: 15,#17: 10,#18:  8,
#19:  5,#20:  4,#22:  2,#24:  2
```

63 -10

Purpose	Setting
Function (Purpose)	Used to set the copy document mode color balance (gamma) default.
Section	Scanner (Image scanning)
Item	Picture quality Color balance
Operation/ Procedure	1. Press the [EXECUTE] key, and the [YES] and [NO] keys become active. 2. When the [YES] key is pressed, the color balance value is set to the default.



SIMULATION NO.63-10

STANDARD SCANNER GAMMA (COPY TO COPY) SETUP

64

64 -01

Purpose	Operation test/check
Function (Purpose)	Used to adjust the operations of the printer section (self-print operation/color). (The print pattern, paper feed mode, print mode, print quantity, and density can be changed optionally.)
Section	Printer
Item	Operation
Operation/ Procedure	1. Select the color to be self-printed with the color keys (CMYK). (Two or more colors can be selected together.) 2. Select the set item with the scroll key. 3. Enter the print conditions with the 10-key, and press the [OK] key to set the entered value. 4. Press the [EXECUTE] Key. The self-print pattern is printed.

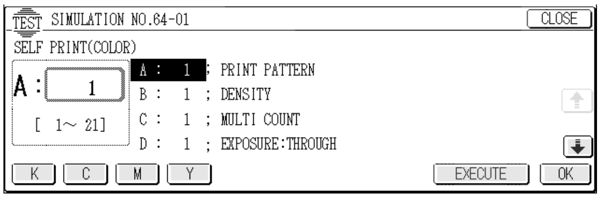
(Items to be set)

	Display	Content	Set range	Default
A	PRINT PATTERN	Print pattern specification (* For details, refer to the following.)	1 – 23	1
B	DENSITY	Print gradation specification	1 – 255	5
C	MULTI COUNT	Print quantity	1 – 999	1
D	EXPOSURE	Exposure mode specification 1: THROUGH --- No process (Through) 2: CHAR/RIC --- Text/Printed photo 3: CHAR/PRPIC --- Text/Photograph 4: CHAR --- Text 5: PRITN PIC --- Printed photo 6: PRINT PAPER --- Photograph 7: MAP --- Map 8: STANDARD DITCH --- No correction, dither	1 – 8	1
E	PAPER	Paper feed tray selection (MFT, CS1, CS2. CS3, CS4, LCC)	1 – 6	2 (CS1)
F	EXIT TRAY	Paper exit tray selection (R, S)	1 – 2	1 (R)
G	DUPLEX	Duplex print selection (NO, YES)	1 – 2	1 (NO)
H	PAPER TYPE	Paper kind selection 1: PLAIN 2: HEAVY 1 3: HEAVY 2 4: OHP 1 5: OHP 2 6: ENVELOPE	1 – 6	1

(Print pattern descriptions)

No.	Content	Pattern generating device	Color selection		Gradation selection	Density selection
			Condition	No color		
1	Grid pattern	LED	○	K only	Line width	×
2	Dot print	LED	○	K only	○	×
3	16 gradations: Sub scan	LED	○ (Max. 3 colors)	K only	×	×
4	16 gradations: Main scan	LED	○ (Max. 3 colors)	K only	×	×
5	Even pitch pattern (1 by 4): Sub scan	LED	○	K only	○	×
6	Even pitch pattern (1 by 4): Sub scan	LED	○	K only	○	×
7	Even pitch pattern (2 by 6): Sub scan	LED	○	K only	○	×
8	Even pitch pattern (2 by 6): Sub scan	LED	○	K only	○	×

No.	Content	Pattern generating device	Color selection		Gradation selection	Density selection
			Condition	No color		
9	Each color 10% (A4/A4R) density print	LED	× (4 colors fixed)	—	Pattern width	×
10	8 color band print	LED	× (4 colors fixed)	—	❍	×
11	Even pitch pattern (1 by N-1) sub scan direction gradation	LED	❍ (Max. 3 colors)	K only	Interval width (N-1)	×
12	Grid pattern	Input process	❍	K only	Grid pattern	❍
13	Dot print	Input process	❍	K only	❍	❍
14	256 gradations: Sub scan	Input process	❍ (Max. 3 colors)	K only	None	❍
15	256-gradation pattern (Fixed gradation)	Input process	❍ (Max. 3 colors)	K only	None	❍
16	256-gradation pattern (Certain gradation) (Gradation specified from external)	Input process	❍ (Max. 3 colors)	K only	None	❍
17	Whole background (half-tone)	Half tone	❍ (Max. 3 colors)	K only	❍	❍
18	256-gradation pattern (Other dither)	Half tone	❍ (Max. 3 colors)	K only	None	❍
19	256-gradatin pattern (Text dither)	Half tone	❍ (Max. 3 colors)	K only	None	❍
20	2-color background print	LED	❍	K only	❍	×
21	2-color dot print	LED	❍	K only	❍	×
22	4-color background print	LED	× (4 colors fixed)	—	❍	×
23	4-color dot print	LED	× (4 colors fixed)	—	❍	×



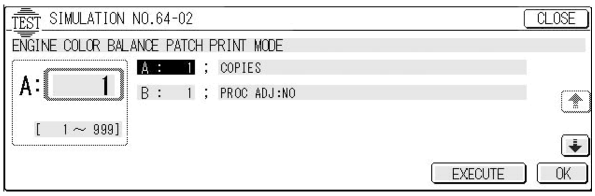
A : 1 ; PRINT PATTERN
B : 1 ; DENSITY
C : 1 ; MULTI COUNT
D : 1 ; EXPOSURE:THROUGH

64 -02

Purpose	Adjustment/Setting/Operation data output, check (display, print)
Function (Purpose)	Used to print the color patch image (adjustment pattern). The above color patch image (adjustment pattern) is outputted according to the currently adjusted color balance (gamma). Use SIM 63-7 to read the color patch image (adjustment pattern), which can be used as the service target of the automatic color balance (gamma) adjustment.
Section	Printer
Item	Operation
Operation/ Procedure	1. Select mode A with the scroll key. 2. Enter the print quantity with the 10-key. 3. Press the [OK] key. 4. Select mode C with the scroll key. 5. Enter the paper kind with the 10-key. 6. Press the [OK] key. 7. Select mode B with the scroll key. 8. Enter (select) the print pattern with the 10-key. 9. Press the [OK] key. 10. Press the [EXECUTE] key. The color patch image (adjustment pattern) is outputted. Set Item B to "2". Print out is made under half tone correction.

Display		Content	Min. Value	Max. Value	Default
A	COPIES	Print quantity	1	999	999
B	PROC ADJ	Reflection of half tone correction	1	2	2

Set value (B: PROC ADJ)	Reflection of half tone correction
1	NO
2	YES



ENGINE COLOR BALANCE PATCH PRINT MODE

A : 1 ; COPIES
B : 1 ; PROC ADJ:NO

64 -03

Purpose	Operation test/check
Function (Purpose)	Used to check the operations of the printer section (self-print operation/BW). (The print pattern, the paper feed mode, the print mode, the print quantity, and the density can be set optionally.)
Section	Printer
Item	Operation
Operation/ Procedure	1. Select the set item with the scroll key. 2. Enter the print conditions with the 10-key and press the [OK] key to set the entered value. 3. Press the [EXECUTE] key. The self-print pattern is printed.

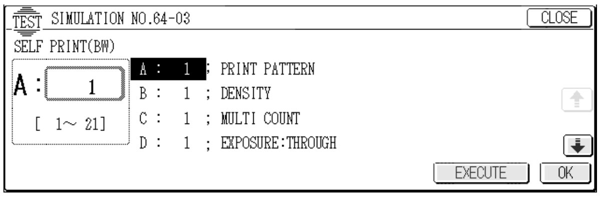
(Items to be set)

Display		Content	Set range	Default
A	PRINT PATTERN	Print pattern specification (* For details, refer to the following.)	1 – 23	1
B	DENSITY	Print gradation specification	1 – 255	5
C	MULTI COUNT	Print quantity	1 – 999	1

Display		Content	Set range	Default
D	EXPOSURE	Exposure mode specification 1: THROUGH --- No process (Through) 2: CHAR/RIC --- Text/Printed photo 3: CHAR/PRPIC --- Text/Photograph 4: CHAR --- Text 5: PRITN PIC --- Printed photo 6: PRINT PAPER --- Photograph 7: MAP --- Map 8: STANDARD DITCH --- No correction, dither	1 – 8	1
E	PAPER	Paper feed tray selection (MFT, CS1, CS2. CS3, CS4, LCC)	1 – 6	2 (CS1)
F	EXIT TRAY	Paper exit tray selection (R, S)	1 or 2	1 (R)
G	DUPLEX	Duplex print selection (NO, YES)	1 or 2	1 (NO)
H	PAPER TYPE	Paper kind selection 1: PLAIN 2: HEAVY 1 3: HEAVY 2 4: OHP 1 5: OHP 2 6: ENVELOPE	1 – 6	1

- Details of each print pattern in item A

No.	Content	Pattern generating device	Gradation selection	Density selection
1	Grid pattern	LED	Line width	×
2	Dot pattern	LED	❍	×
3	16-grdation: sub scan	LED	×	×
4	16-gradation: main scan	LED	×	×
5	Even pitch pattern (1 by 4): sub scan	LED	❍	×
6	Even pitch pattern (1 by 4): sub scan	LED	❍	×
7	Even pitch pattern (2 by 6): sub scan	LED	❍	×
8	Even pitch pattern (2 by 6): sub scan	LED	❍	×
9	Each color 10% (A4/A4R) density print	LED	Pattern width	×
10	8-color band print	LED	❍	×
11	Even pitch pattern (1 by N-1) sub scan direction gradation	LED	Interval width (N-1)	×
12	Grid pattern	Input process	Line width	❍
13	Dot pattern	Input process	❍	❍
14	256 gradations: sub scan	Input process	None	❍
15	256-gradation pattern (Fixed gradation)	Input process	None	❍
16	256-gradation pattern (Certain gradation) (Gradation specified from external)	Input process	None	❍
17	Whole background (half tone)	Half tone	❍	❍
18	256-gradation pattern (Other dither)	Half tone	None	❍
19	256-gradation pattern (Text dither)	Half tone	None	❍
20	Half background print	LED	❍	×
21	Half background dot print	LED	❍	×
22	1/4 background print	LED	❍	×
23	1/4 background dot print	LED	❍	×

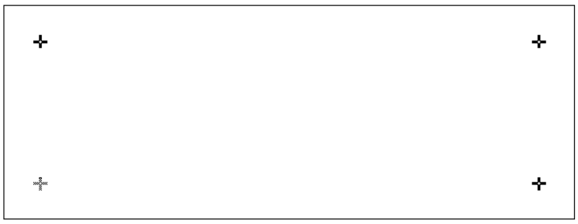

SIMULATION NO.64-03
SELF PRINT(BW)
A : 1
[1～ 21]
A : 1 ; PRINT PATTERN
B : 1 ; DENSITY
C : 1 ; MULTI COUNT
D : 1 ; EXPOSURE:THROUGH

65

65 -01

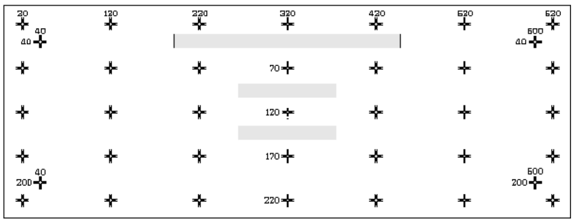
Purpose	Adjustment
Function (Purpose)	Used to adjust the touch panel (LCD display section) detection position.
Section	Operation (Display, procedure)
Operation/ Procedure	1. Touch the four cross marks. The coordinates at the pressed point are set.

When the coordinates are properly set, the mark "+" on the display turns to gray. When all the four points are pressed, the display returns to the normal display.



65 -02

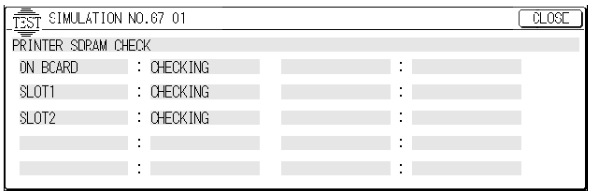
Purpose	Adjustment/Setting/Operation data output, check (display, print)
Function (Purpose)	Used to check the result of the touch panel (LCD display) detection position adjustment. (The coordinates are displayed.)
Section	Operation (Display, procedure)
Operation/ Procedure	When the touch panel is pressed, the AD value in each of X and Y directions at that point and the coordinate values are displayed in ( ) as well as the coordinate values of each point. It is based on the coordinates set with SIM 65-1.



67

67 -01

Purpose	Operation test/check
Function (Purpose)	Used to check the operations of printer DRAM read/write.
Section	Printer
Item	Operation
Operation/ Procedure	When the machine enters the simulation mode, the printer DRAM read/write operation check is started. After completion of check, "ERROR" or "MEMORY SIZE" is displayed. If no memory is installed, "NA" is displayed.


SIMULATION NO.67 01

PRINTER SDRAM CHECK

ON BOARD : CHECKING

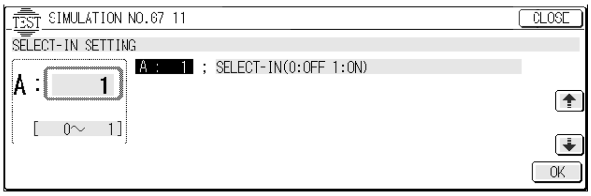
SLOT1 : CHECKING

SLOT2 : CHECKING

67 -11

Purpose	Setting
Function (Purpose)	Used to set the printer parallel I/F SELECT IN signal.
Section	Printer
Item	Operation
Operation/ Procedure	Enter the set value with the 10-key, and press the [OK] key. When a trouble occurs in communication between PC and the printer by use of the printer parallel I/F, change the setup content of this simulation.

Display		Content	Set range	Default
A	SELECT-IN (0:OFF 1:ON)	Centro I/F SELECT IN signal YES/NO setting	0 – 1	1


SIMULATION NO.67 11

SELECT-IN SETTING

A : 1 ; SELECT-IN(0:OFF 1:ON)

A : 1

[0~ 1]

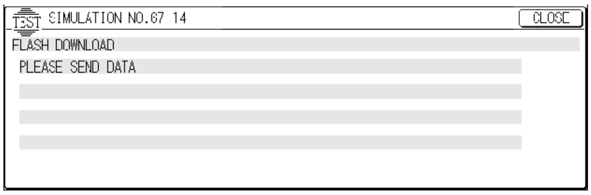
67 -14

Purpose	Version up
Function (Purpose)	Used to perform version up of the firmware. (Printer)
Section	Firmware (Printer)
Item	Operation
Operation/ Procedure	1. When the machine enters the simulation mode, it enters the printer firmware version up mode at the same time.

2. Use "fcopy" command on the PC side to download the firmware file. When the firmware data are normally downloaded and written into the Flash ROM, "COMPLETE" is displayed.

In case of an error, the following message is displayed.

- When the Flash ROM kind is improper:
  "ROM KIND ERROR" is displayed.
- When an error occurs during initializing the Flash ROM:
  "FLASH ERROR" is displayed.
- When an error occurs during verifying:
  "UPDATE ERROR" is displayed.

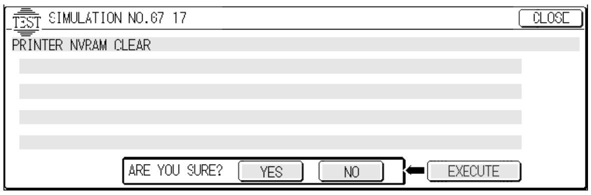

SIMULATION NO.67 14

FLASH DOWNLOAD

PLEASE SEND DATA

67 -17

Purpose	Data clear
Function (Purpose)	Used to clear NVRAM. (Printer)
Section	Printer
Item	Others
Operation/ Procedure	1. Press the [EXECUTE] key. The confirmation message to clear is displayed. 2. Select YES/NO to clear the NVRAM. YES: Clear NO: Not clear When the printer NVRAM is normally cleared, "COMPLETE" is displayed. In case of an error, "ERROR" is displayed.

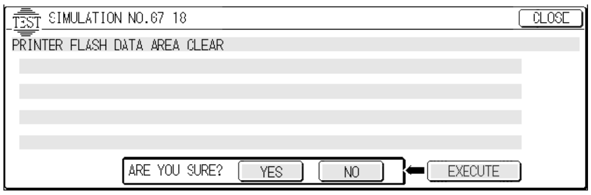

SIMULATION NO.67 17

PRINTER NVRAM CLEAR

ARE YOU SURE?

67 -18

Purpose	Data clear
Function (Purpose)	Used to clear the Flash data. (Printer)
Section	Printer
Item	Others
Operation/ Procedure	1. Press the [EXECUTE] key. The confirmation message to clear the Flash data is displayed. 2. Select YES/NO to clear the Flash data. YES: Clear NO: Not clear When the printer Flash data are normally cleared, "COMPLETE" is displayed. In case of an error, "ERROR" is displayed.


SIMULATION NO.67 18

PRINTER FLASH DATA AREA CLEAR

ARE YOU SURE?

[10] MAINTENANCE LIST

1. Maintenance system table

×: Check (Clean, replace, or adjust as necessary.) ❍: Clean ▲: Replace △: Adjust ☆: Lubricate ❑: Shift position

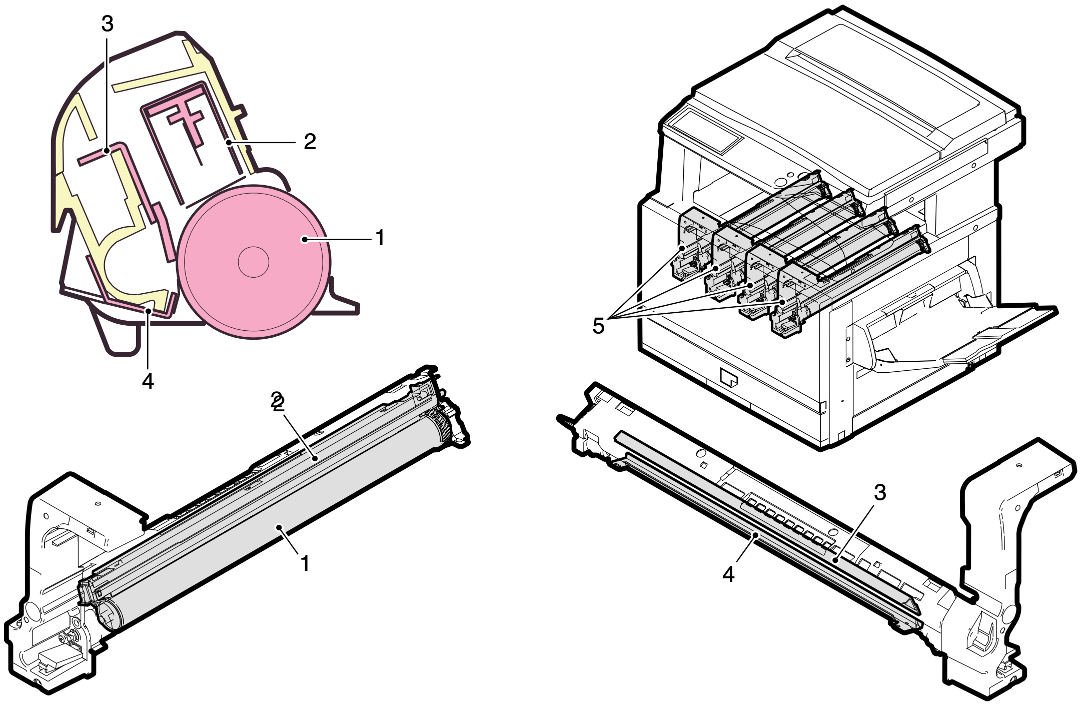
Unit Name	No.	Part name	When calling	50K	100K	150K	200K	250K	300K	350K	400K	Remark
Drum peripheral section	1	Drum (B/W, Color)		▲	▲	▲	▲	▲	▲	▲	▲	
	2	Charging unit		▲	▲	▲	▲	▲	▲	▲	▲	
	3	Cleaner blade		▲	▲	▲	▲	▲	▲	▲	▲	
	4	Toner reception seal		▲	▲	▲	▲	▲	▲	▲	▲	
	5	Drum cartridge		▲	▲	▲	▲	▲	▲	▲	▲	When replacing the unit
Developing section (integrated with toner cartridge)		Toner cartridge	Replaced by user when toner empty (or at the specified distance covered)									
Transfer section	1	Transfer belt		×	▲	×	▲	×	▲	×	▲	Replace at 100K or within 2 years.
	2	Transfer roller		×	▲	×	▲	×	▲	×	▲	
	3	Transfer belt cleaning blade		×	▲	×	▲	×	▲	×	▲	Replace at 100K or within 2 years.
	4	Transfer discharge sheet		×	❍	×	❍	×	❍	×	❍	
	5	Transfer belt cleaning roller		×	▲	×	▲	×	▲	×	▲	
	6	Transfer drive roller		×	×	×	×	×	×	×	×	
	7	Transfer follower roller		×	×	×	×	×	×	×	×	
	8	Transfer cleaning brush		×	×	×	×	×	×	×	×	
	9	Sensors		×	×	×	×	×	×	×	×	
	10	Waste toner tank unit	▲	×	▲	×	▲	×	▲	×	▲	When waste toner full is detected.
	11	Transfer belt unit		×	▲	×	▲	×	▲	×	▲	Replace the unit at 100K or within 2 years.
Fusing section	1	Upper heat roller	×	×	▲	×	▲	×	▲	×	▲	Replace at 100K or within 2 years.
	2	Lower heat roller	×	×	▲	×	▲	×	▲	×	▲	Replace at 100K or within 2 years.
	3	Heat roller gear	×	×	▲	×	▲	×	▲	×	▲	
	4	Heat roller bearing	×	×	▲	×	▲	×	▲	×	▲	
	5	Separation pawl	×	×	▲	×	▲	×	▲	×	▲	
	6	Thermistor	×	×	▲	×	▲	×	▲	×	▲	
	7	Bearings	×	×	×	×	×	×	×	×	×	
	8	Gears	×	☆	☆	☆	☆	☆	☆	☆	☆	
	9	Paper guides	❍	❍	❍	❍	❍	❍	❍	❍	❍	
	10	Paper exit roller	×	×	×	×	×	×	×	×	×	
	11	Fusing unit		×	▲	×	▲	×	▲	×	▲	Replace the unit at 100K or within 2 years.
Optical section	1	CCD, mirror, lens, reflector	❍	❍	❍	❍	❍	❍	❍	❍	❍	
	2	Table glass, sensors	❍	❍	❍	❍	❍	❍	❍	❍	❍	
	3	Shading glass	❍	❍	❍	❍	❍	❍	❍	❍	❍	
	4	Rails	☆	☆	☆	☆	☆	☆	☆	☆	☆	
	5	Drive wire, pulley, pulley belt	×	×	×	×	×	×	×	×	×	
Paper feed section	1	Cassette section paper feed rollers	❍	❍	❍	❍	❍	❍	❍	❍	❍	Replace according to the counter of each paper feed port or within 2 years.
	2	Torque limiter	×		×		×		×		×	
	3	Manual feed section paper feed rollers	❍	×	×	×	×	×	×	×	×	Replace according to the counter of each paper feed port or within 2 years.
	4	Torque limiter	×	×	×	×	×	×	×	×	×	
Transport section	5	Transport rollers	❍	❍	❍	❍	❍	❍	❍	❍	❍	
	6	Transport paper guides	❍	❍	❍	❍	❍	❍	❍	❍	❍	
Image-related sections			×	×	×	×	×	×	×	×	×	
LED	1	LED lens	❍	❍	❍	❍	❍	❍	❍	❍	❍	
Filters	1	Ozone filter	×	▲	▲	▲	▲	▲	▲	▲	▲	
	2	Sub ozone filter	×	▲	▲	▲	▲	▲	▲	▲	▲	
Drive section	3	Gears	☆	☆	☆	☆	☆	☆	☆	☆	☆	
	4	Belts	×	×	×	×	×	×	×	×	×	
Others	5	Sensors	×		×		×		×		×	

2. List

A. Drum peripheral section

✕: Check (Clean, replace, or adjust as necessary.) ❍: Clean ▲: Replace △: Adjust ☆: Lubricate ❑: Shift position

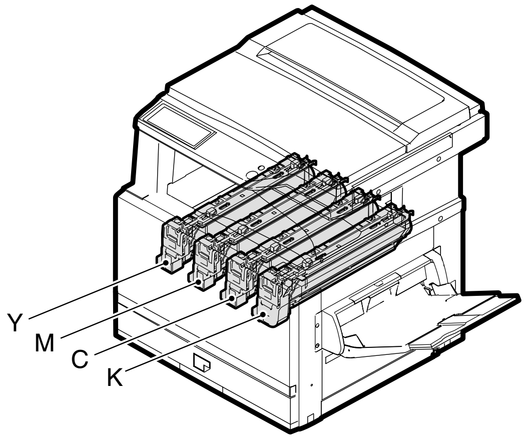
Unit Name	No.	Part name	When calling	50K	100K	150K	200K	250K	300K	350K	400K	Remark
Drum peripheral section	1	Drum (B/W, Color)		▲	▲	▲	▲	▲	▲	▲	▲	
	2	Charging unit		▲	▲	▲	▲	▲	▲	▲	▲	
	3	Cleaner blade		▲	▲	▲	▲	▲	▲	▲	▲	
	4	Toner reception seal		▲	▲	▲	▲	▲	▲	▲	▲	
	5	Drum cartridge		▲	▲	▲	▲	▲	▲	▲	▲	When replacing the unit



B. Developing section

✕: Check (Clean, replace, or adjust as necessary.) ❍: Clean ▲: Replace △: Adjust ☆: Lubricate ❑: Shift position

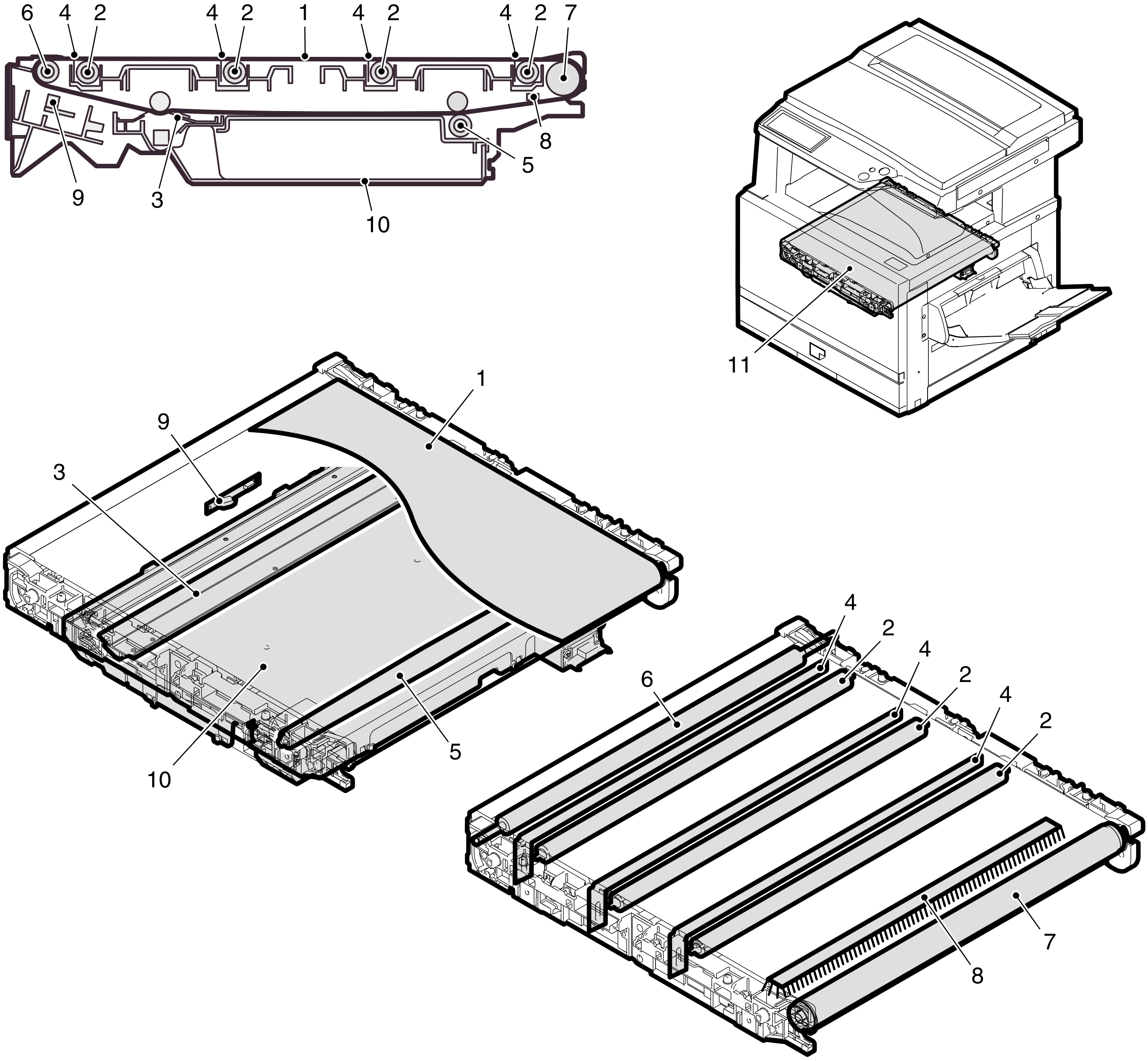
Unit Name	No.	Part name	When calling	50K	100K	150K	200K	250K	300K	350K	400K	Remark
Developing section (integrated with toner cartridge)		Toner cartridge	Replaced by user when toner empty (or at the specified distance covered)									



C. Transfer section

×: Check (Clean, replace, or adjust as necessary.)　❍: Clean　▲: Replace　△: Adjust　☆: Lubricate　❏: Shift position

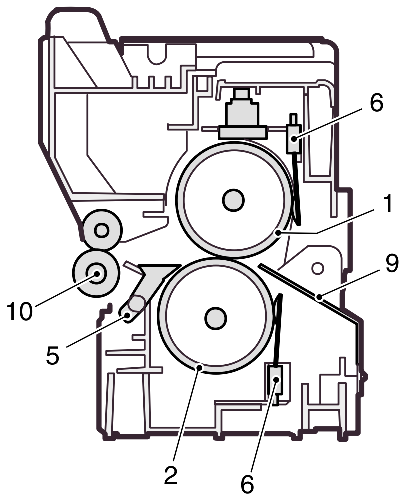
Unit Name	No.	Part name	When calling	50K	100K	150K	200K	250K	300K	350K	400K	Remark
Transfer section	1	Transfer belt		×	▲	×	▲	×	▲	×	▲	Replace at 100K or within 2 years.
	2	Transfer roller		×	▲	×	▲	×	▲	×	▲	
	3	Transfer belt cleaning blade		×	▲	×	▲	×	▲	×	▲	Replace at 100K or within 2 years.
	4	Transfer discharge sheet		×	❍	×	❍	×	❍	×	❍	
	5	Transfer belt cleaning roller		×	▲	×	▲	×	▲	×	▲	
	6	Transfer drive roller		×	×	×	×	×	×	×	×	
	7	Transfer follower roller		×	×	×	×	×	×	×	×	
	8	Transfer cleaning brush		×	×	×	×	×	×	×	×	
	9	Sensors		×	×	×	×	×	×	×	×	
	10	Waste toner tank unit	▲	×	▲	×	▲	×	▲	×	▲	When waste toner full is detected.
	11	Transfer belt unit		×	▲	×	▲	×	▲	×	▲	Replace the unit at 100K or within 2 years.

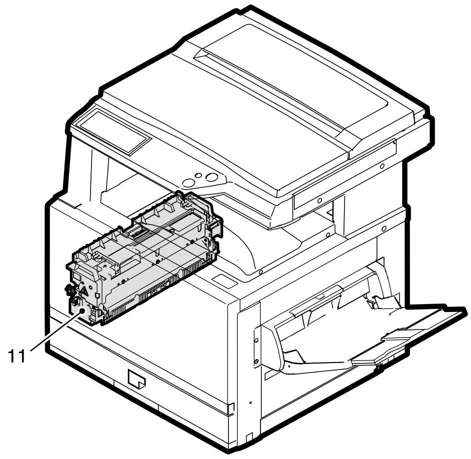


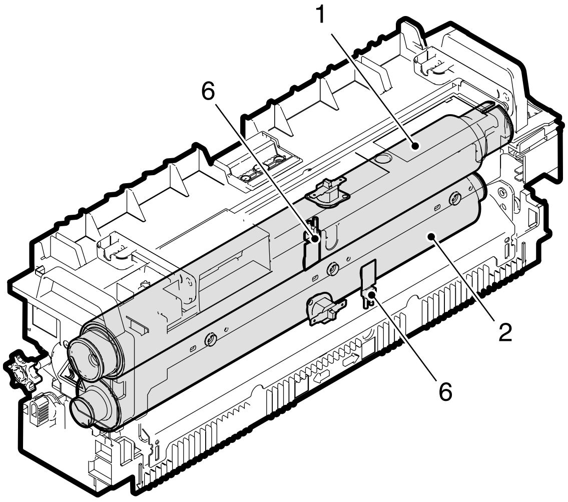
D. Fusing section

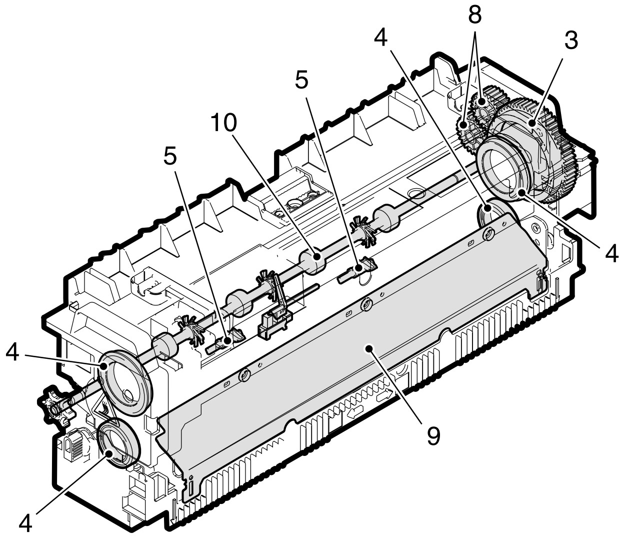
×: Check (Clean, replace, or adjust as necessary.) ❍: Clean ▲: Replace △: Adjust ☆: Lubricate ❑: Shift position

Unit Name	No.	Part name	When calling	50K	100K	150K	200K	250K	300K	350K	400K	Remark
Fusing section	1	Upper heat roller	×	×	▲	×	▲	×	▲	×	▲	Replace at 100K or within 2 years.
	2	Lower heat roller	×	×	▲	×	▲	×	▲	×	▲	Replace at 100K or within 2 years.
	3	Heat roller gear	×	×	▲	×	▲	×	▲	×	▲	
	4	Heat roller bearing	×	×	▲	×	▲	×	▲	×	▲	
	5	Separation pawl	×	×	▲	×	▲	×	▲	×	▲	
	6	Thermistor	×	×	▲	×	▲	×	▲	×	▲	
	7	Bearings	×	×	×	×	×	×	×	×	×	
	8	Gears	×	☆	☆	☆	☆	☆	☆	☆	☆	
	9	Paper guides	❍	❍	❍	❍	❍	❍	❍	❍	❍	
	10	Paper exit roller	×	×	×	×	×	×	×	×	×	
	11	Fusing unit		×	▲	×	▲	×	▲	×	▲	Replace the unit at 100K or within 2 years.





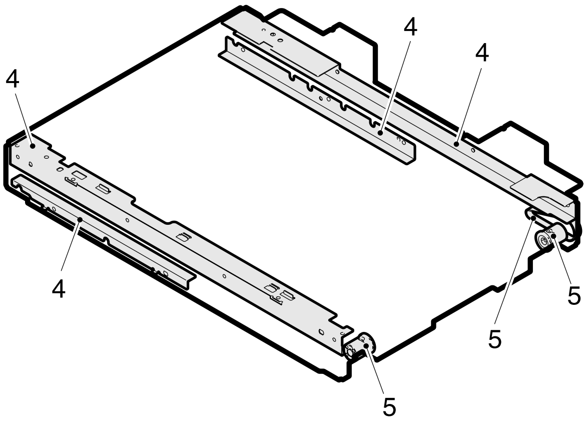


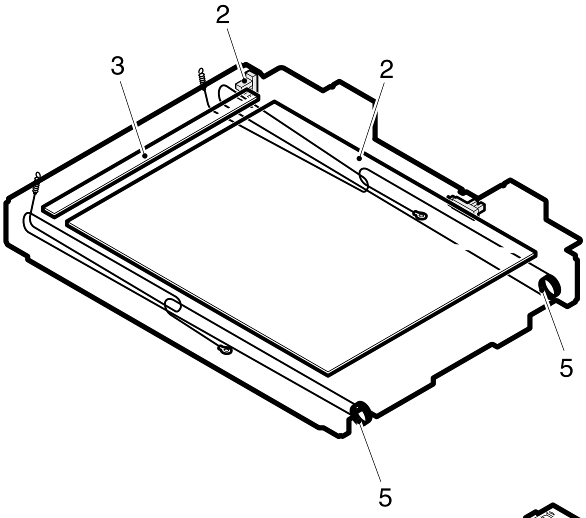


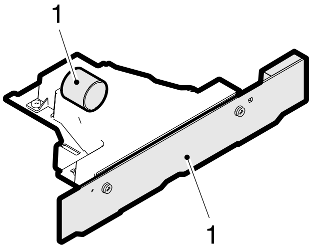
E. Optical section (Scanner section)

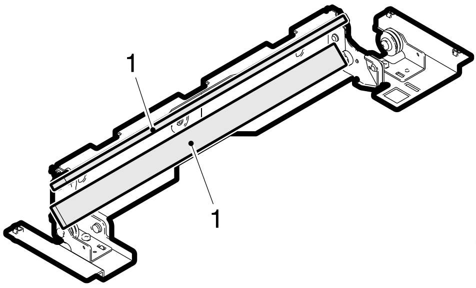
×: Check (Clean, replace, or adjust as necessary.) ❍: Clean ▲: Replace ∆: Adjust ☆: Lubricate ❏: Shift position

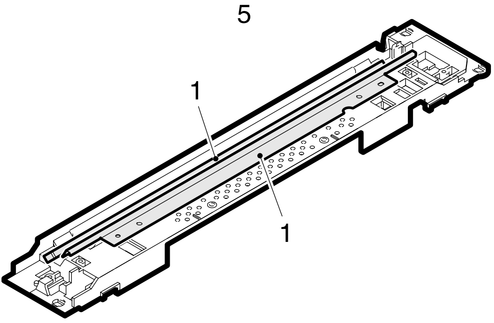
Unit Name	No.	Part name	When calling	50K	100K	150K	200K	250K	300K	350K	400K	Remark
Optical section	1	CCD, mirror, lens, reflector	❍	❍	❍	❍	❍	❍	❍	❍	❍	
	2	Table glass, sensors	❍	❍	❍	❍	❍	❍	❍	❍	❍	
	3	Shading glass	❍	❍	❍	❍	❍	❍	❍	❍	❍	
	4	Rails	☆	☆	☆	☆	☆	☆	☆	☆	☆	
	5	Drive wire, pulley, pulley belt	×	×	×	×	×	×	×	×	×	







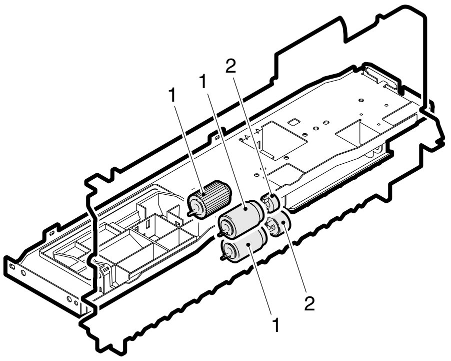


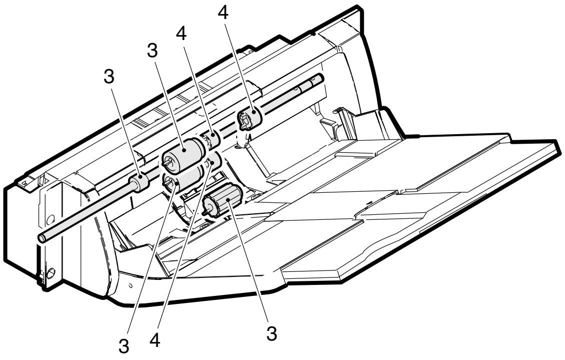


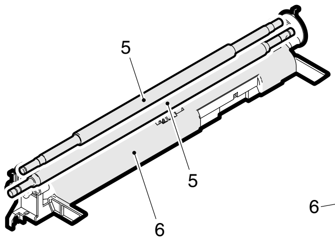
F. Paper feed section, transport section

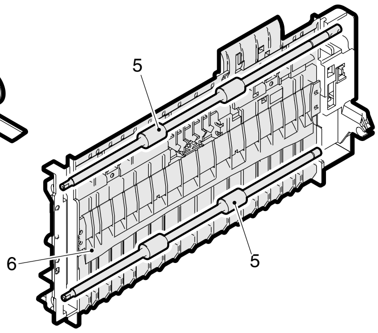
×: Check (Clean, replace, or adjust as necessary.) ❍: Clean ▲: Replace △: Adjust ☆: Lubricate ❑: Shift position

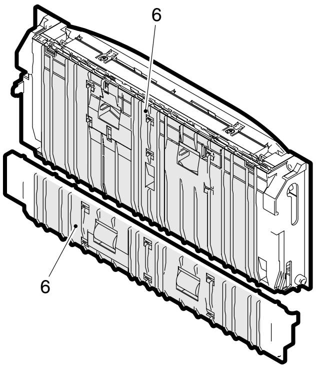
Unit Name	No.	Part name	When calling	50K	100K	150K	200K	250K	300K	350K	400K	Remark
Paper feed section	1	Cassette section paper feed rollers	❍	❍	❍	❍	❍	❍	❍	❍	❍	Replace according to the counter of each paper feed port or within 2 years.
	2	Torque limiter	×		×		×		×		×	
	3	Manual feed section paper feed rollers	❍	×	×	×	×	×	×	×	×	Replace according to the counter of each paper feed port or within 2 years.
	4	Torque limiter	×	×	×	×	×	×	×	×	×	
Transport section	5	Transport rollers	❍	❍	❍	❍	❍	❍	❍	❍	❍	
	6	Transport paper guides	❍	❍	❍	❍	❍	❍	❍	❍	❍	







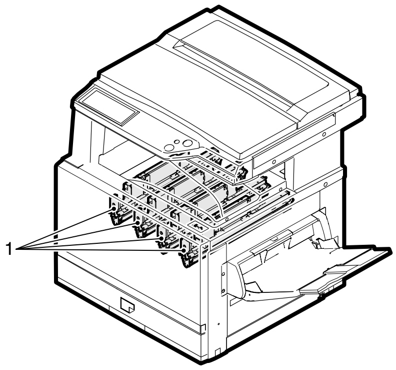




G. LED

×: Check (Clean, replace, or adjust as necessary.) ❍: Clean ▲: Replace △: Adjust ☆: Lubricate ❑: Shift position

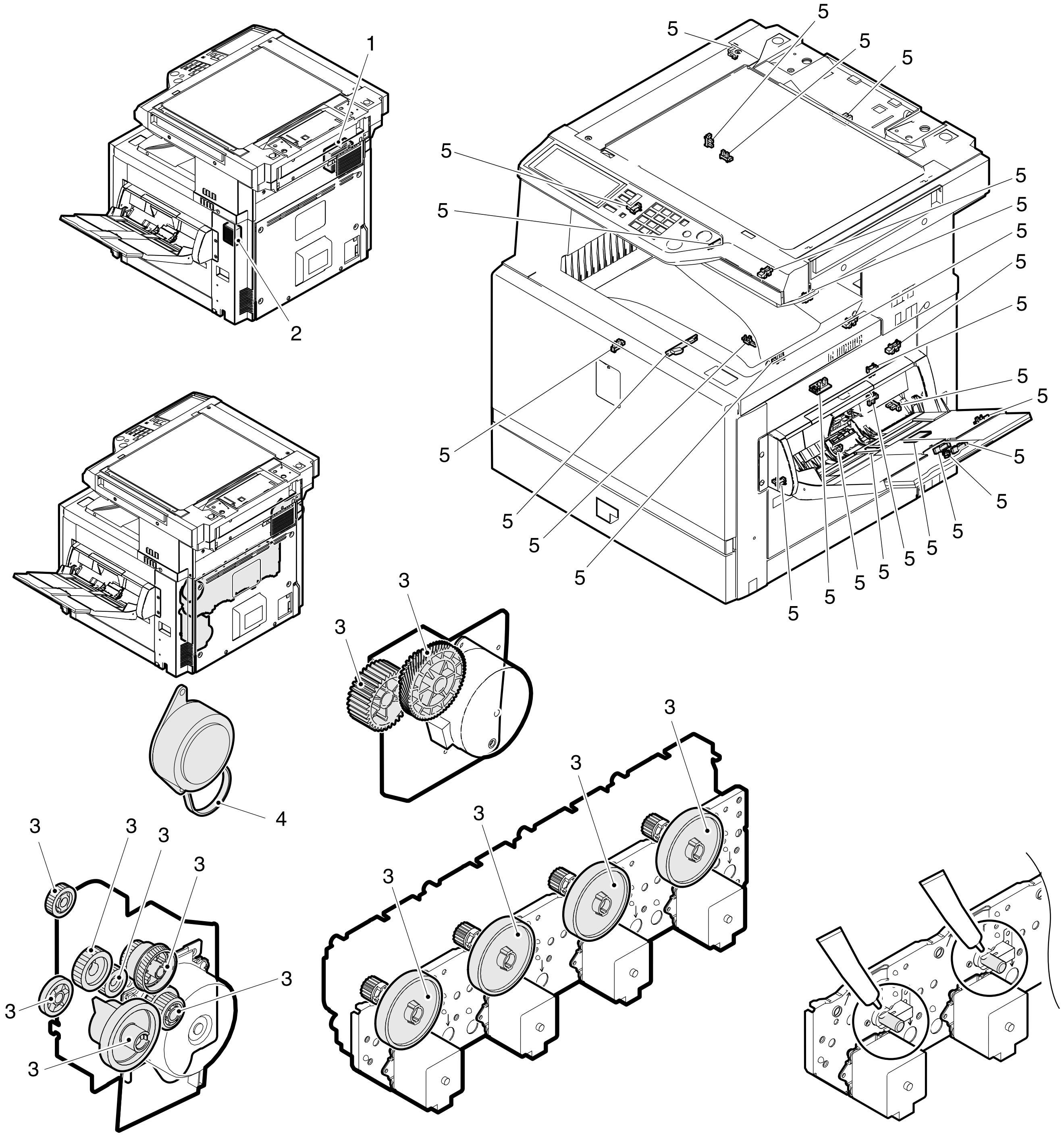
Unit Name	No.	Part name	When calling	50K	100K	150K	200K	250K	300K	350K	400K	Remark
LED	1	LED lens	❍	❍	❍	❍	❍	❍	❍	❍	❍	



H. Filters, drive section, others

×: Check (Clean, replace, or adjust as necessary.)　❍: Clean　▲: Replace　△: Adjust　☆: Lubricate　❑: Shift position

Unit Name	No.	Part name	When calling	50K	100K	150K	200K	250K	300K	350K	400K	Remark
Filters	1	Ozone filter	×	▲	▲	▲	▲	▲	▲	▲	▲	
	2	Sub ozone filter	×	▲	▲	▲	▲	▲	▲	▲	▲	
Drive section	3	Gears	☆	☆	☆	☆	☆	☆	☆	☆	☆	
	4	Belts	×	×	×	×	×	×	×	×	×	
Others	5	Sensors	×		×		×		×		×	



[11] TROUBLESHOOTING

1. Outline

In case of a trouble in the machine, or when a consumable part has nearly reached or already reach the lifetime, the machine detects it, analyze it, and displays it on the display section and notifies the user and the serviceman by a voice message.

The user and the serviceman are bale to perform the proper countermeasures according to a voice message. In case of a trouble, the machine is stopped to restrict damage to a minimum in addition to a voice message.

2. Functions and purposes

1) Assures safety. (The machine is stopped when a trouble is detected.)
2) Restricts damage to a minimum. (The machine is stopped when a trouble is detected.)
3) By displaying the trouble content, the trouble position can be identified immediately and accurately. (An accurate repair work can be performed, improving the repair efficiency.)
4) By providing a preparatory warning when the lifetime of a consumable part is nearly reached, arrangement of the consumable part can be made in advance. (Stopping the machine by exhaustion of a consumable part is avoidable.)

3. Kinds of self diagnostic messages

The self diagnostic messages are classified as follows:

Class 1	User	Troubles and warning messages (paper jam, consumable part life expiration, etc.) which can be processed by the user
	Service	Troubles and warning messages (motor trouble, maintenance, etc.) which can be processed only by a serviceman
	Other	—
Class 2	Warning	Warning messages (consumable part life expiration, etc.) for the user, which are not directly related to any machine trouble.
	Trouble	Related to a machine trouble. The machine is stopped.
	Other	—

4. Self diagnostic operation

A. Self diagnostic operation and work flow

The machine always monitors its own status.

When the machine detects a trouble, it stops operations and displays a trouble message.

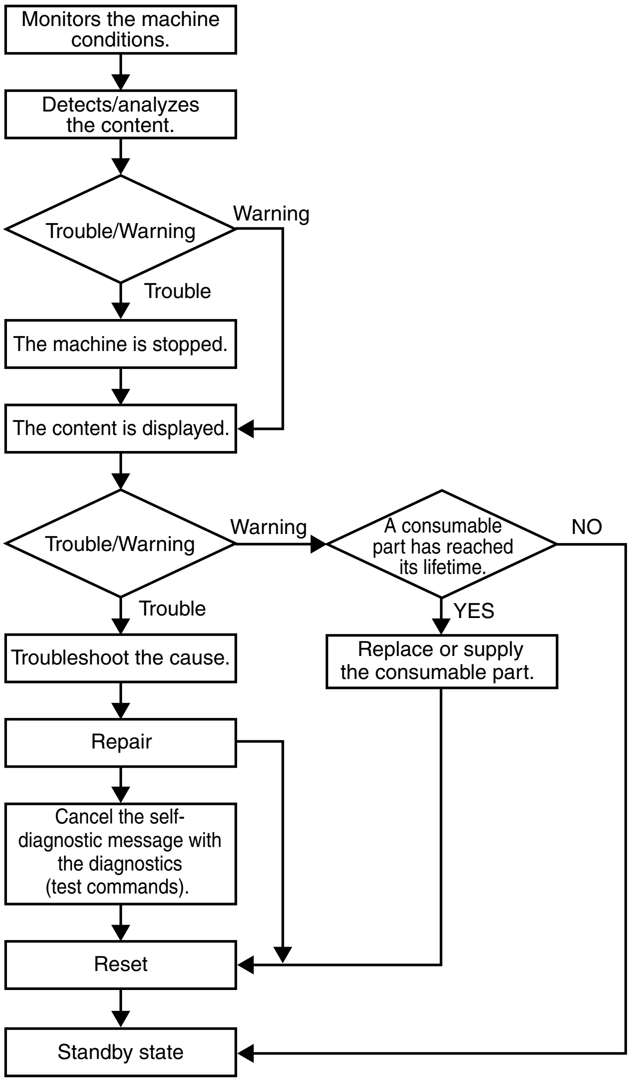
A warning message is provided mainly when a consumable part is nearly or completely exhausted.

When a warning message is provided, the machine may be stopped or may not be stopped depending on the message.

The trouble and warning messages are indicated with the LCD and lamps.

Some trouble messages may be automatically cleared after removing the trouble, and some must be cleared with the simulation.

Some warning messages of consumable parts are automatically cleared when the trouble is repaired. Some other warning messages must be cleared by a simulation.


Monitors the machine conditions.
Detects/analyzes the content.
Trouble/Warning
Warning
Trouble
The machine is stopped.
The content is displayed.
Trouble/Warning
Warning
A consumable part has reached its lifetime.
NO
Trouble
YES
Troubleshoot the cause.
Replace or supply the consumable part.
Repair
Cancel the self-diagnostic message with the diagnostics (test commands).
Reset
Standby state

5. List

Model	Main code	Sub code	Content
AR-C260 AR-C260M	C2	10	Image density sensor error/Transfer charger error (Black)
	E7	01	Image data memory trouble
		10	Shading trouble (Black correction)
		11	Shading trouble (White correction)
		20	LED controller initial trouble (Black)
		21	LED controller initial trouble (Cyan)
		22	LED controller initial trouble (Magenta)
		23	LED controller initial trouble (Yellow)
		24	LED controller output trouble (Black)
		25	LED controller output trouble (Cyan)
		26	LED controller output trouble (Magenta)
		27	LED controller output trouble (Yellow)
		28	LED control ASIC connection abnormality
		40	Color correction data writing abnormality
		41	Color correction data transfer abnormality
		80	ICU-SCN communication trouble (ICU detection)
		90	ICU-PCU communication trouble (ICU detection)
	F1	00	Finisher communication trouble (PCU detection)
		02	Finisher transport motor trouble (Finisher detection)
		03	Finisher paddle motor trouble
		06	Finisher slide motor trouble
		10	Finisher staple motor abnormality (Finisher detection)
		11	Finisher bundle process motor abnormality (Finisher detection)
		15	Finisher tray lift motor abnormality (Finisher detection)
		19	Finisher front alignment motor abnormality (Finisher detection)
		20	Finisher rear alignment motor abnormality (Finisher detection)
		31	Finisher fold sensor trouble
		32	Finisher punch unit communication trouble
		33	Finisher punch side registration motor trouble
		34	Finisher punch motor trouble
		35	Finisher punch side registration sensor trouble
		36	Finisher punch registration sensor trouble
		37	Finisher/sorter backup RAM trouble
		38	Finisher punch backup RAM trouble
		39	Finisher punch dust sensor trouble
		40	Finisher punch power disconnection trouble
		83	Sorter guide bar oscillation motor (M3) lock
		89	Sorter bin shift motor lock (M1)
		91	Sorter bin paper sensor automatic adjustment trouble
AR-C260 AR-C260M	F2	15	Drum unit initial detection trouble (Black)
		16	Drum unit initial detection trouble (Cyan)
		17	Drum unit initial detection trouble (Magenta)
		18	Drum unit initial detection trouble (Yellow)
		19	Transfer unit initial detection trouble
		39	Process thermistor breakdown
		40	Toner empty sensor abnormality (Black)
		41	Toner empty sensor abnormality (Cyan)
		42	Toner empty sensor abnormality (Magenta)
		43	Toner empty sensor abnormality (Yellow)
		44	Black image density sensor trouble (Transfer belt surface reflection ratio abnormality)
		45	Color image density sensor trouble (Calibration plate surface reflection ratio abnormality)
		58	Process humidity sensor breakdown
		70	Developing unit improper cartridge detection (Black)
		71	Developing unit improper cartridge detection (Cyan)
		72	Developing unit improper cartridge detection (Magenta)
		73	Developing unit improper cartridge detection (Yellow)
		74	Developing unit CRUM trouble (Black)
		75	Developing unit CRUM trouble (Cyan)
		76	Developing unit CRUM trouble (Magenta)
		77	Developing unit CRUM trouble (Yellow)
		78	Trouble of image density sensor for registration (Transfer belt surface reflection ratio abnormality)
		80	Half-tone process control 1st batch error (Black)
		81	Half-tone process control 1st batch error (Cyan)
		82	Half-tone process control 1st batch error (Magenta)
		83	Half-tone process control 1st batch error (Yellow)
		84	Half-tone process control 2nd batch error (Black)
		85	Half-tone process control 2nd batch error (Cyan)
		86	Half-tone process control 2nd batch error (Magenta)
		87	Half-tone process control 2nd batch error (Yellow)
		90	Half-tone process control limit error
	F3	12	Cassette 1 lift up trouble
	F9	00	ICU-PRT communication trouble (ICU detection)
		01	PRT DRAM trouble
		02	NIC port check error
		20	HDD trouble (PRT controller detection)
	H2	00	Thermistor open (HL1)
		01	Thermistor open (HL2)
	H3	00	Fusing section high temperature trouble (HL1)
		01	Fusing section high temperature trouble (HL2)

Model	Main code	Sub code	Content
AR-C260 AR-C260M	H4	00	Fusing section low temperature trouble (HL1)
		01	Fusing section low temperature trouble (HL2)
	H5	01	Five continuous detections of POD1 not-reached jam
	H8	01	Fusing unit initial detection trouble
	L1	00	Mirror feed trouble
	L3	00	Mirror return trouble
	L4	02	Paper feed motor lock trouble
		06	Transfer belt lift motor trouble
		07	Transfer belt motor trouble
		11	Shift motor trouble
	L8	01	Full wave signal not provided
		02	Full wave signal width abnormality
		04	Main power switch abnormality detection
	PF	00	RIC copy inhibit signal reception
	U0	00	ICU-OPE communication trouble (ICU/OPE detection)
	U1	02	RTC read trouble
	U2	00	EEPROM read/write error (ICU detection)
		11	EEPROM check sum error (ICU detection)
		30	Production No. data discrepancy (ICU ⇔ ICU)
		80	EEPROM read/write error (SCN detection)
		81	EEPROM check sum error (SCN detection)
		90	EEPROM read/write error (PCU detection)
		91	EEPROM check sum error (PCU detection)
	U4	02	ADU alignment plate operation abnormality
	U5	00	ADF communication trouble
		01	ADF resist sensor defect
		02	ADF repulsion sensor defect
		03	ADF timing sensor defect
		11	Paper feed motor operation abnormality
	U6	00	Desk communication trouble
		01	Desk tray 1 lift motor trouble
		02	Desk tray 2 lift motor trouble
		03	Desk tray 3 lift motor trouble
		10	Desk transport motor trouble
	U7	00	RIC communication trouble

6. Details

Main code	Sub code	Title	**Image density sensor error/ Transfer charger error (Black)**	
C2	**10**	Display	Lamp/Message	
		Phenomenon	Detail	Black image density sensor trouble /Transfer trouble (Black) /The deference between the transfer belt surface detection level and the black toner patch density detection level is normal. (Judged in black image density sensor calibration)
			Section	Transfer
		Case 1	Cause	Black image density sensor trouble
			Check & Remedy	Black density image sensor cleaning, replacement
		Case 2	Cause	Transfer voltage trouble
			Check & Remedy	Check and adjust the transfer voltage.
		Case 3	Cause	High voltage PWB trouble
			Check & Remedy	Replace the high voltage PWB.
		Case 4	Cause	Transfer unit trouble
			Check & Remedy	Check the transfer belt surface for dirt and scratches. Replace the transfer belt, replace the cleaning blade, replace the transfer unit.
		Case 5	Cause	PCU PWB trouble
			Check & Remedy	PCU PWB replacement
		Case 6	Cause	Photoconductor unit trouble
			Check & Remedy	Replace the photoconductor unit.
		Case 7	Cause	Developing unit trouble
			Check & Remedy	Replace the developing unit
		Case 8	Cause	Connector, harness trouble (PCU PWB, high voltage PWB, image density sensor, photoconductor unit, transfer unit, developing unit)
			Check & Remedy	Check contact. Replace the harness. Replace the PWB.

Main code	Sub code	Title	**Image data memory trouble**	
E7	**01**	Display	Lamp/Message	
		Phenomenon	Detail	The ICU image data memory (SDRAM) cannot be detected as 256MB or more. The required SDRAM capacity for the model is not provided.
			Section	ICU PWB
		Case 1	Cause	The SDRAM of ICU PWB is not installed. The SDRAM of ICU PWB is improperly installed.
			Check & Remedy	Check installation of the SDRAM of ICU ASIC PWB.
		Case 2	Cause	The SDRAM of ICU PWB does not operate properly.
			Check & Remedy	Use SIM 60-01 to check the capacity of the SDRAM. Replace the SDRAM of ICU PWB.
		Case 3	Cause	ICU PWB abnormality
			Check & Remedy	Replace the ICU PWB.

Main code	Sub code	Title	**Shading trouble (Black correction)**	
E7	**10**	Display	Lamp/Message	
		Phenomenon	Detail	CCD black reading level abnormality when the copy lamp is off.
			Section	CCD unit
		Case 1	Cause	Improper installation of the flat cable to the CCD unit.
			Check & Remedy	Check installation of the flat cable to the CCD unit.
		Case 2	Cause	CCD unit abnormality
			Check & Remedy	Check the CCD unit.
		Case 3	Cause	MFP PWB abnormality
			Check & Remedy	Check the MFP PWB.

Main code	Sub code	Title	**Shading trouble (White correction)**	
E7	**11**	Display	Lamp/Message	
		Phenomenon	Detail	CCD white reading level abnormality when the copy lamp is off.
			Section	CCD unit
		Case 1	Cause	Improper installation of the flat cable to the CCD unit.
			Check & Remedy	Check installation of the flat cable to the CCD unit.
		Case 2	Cause	Dirt on the mirror, the lens, or the reference white plate.
			Check & Remedy	Clean the mirror, the lens, or the reference white plate.
		Case 3	Cause	CCD unit abnormality
			Check & Remedy	Check the CCD unit.
		Case 4	Cause	MFP PWB abnormality
			Check & Remedy	Check the MFP PWB.

Main code	Sub code	Title	**LED controller initial trouble (Black)**	
E7	**20**	Display	Lamp/Message	
		Phenomenon	Detail	The initial process of the LED controller cannot be completed properly.
			Section	LED/ICU PWB
		Case 1	Cause	Disconnection of the LED head connector.
			Check & Remedy	Check connection of the LED head connector.
		Case 2	Cause	Disconnection of the harness inside the LED head.
			Check & Remedy	Replace the LED head unit.
		Case 3	Cause	ICU PWB abnormality
			Check & Remedy	Replace the ICU PWB.

Main code	Sub code	Title	**LED controller initial trouble (Cyan)**	
E7	**21**	Display	Lamp/Message	
		Phenomenon	Detail	The initial process of the LED controller cannot be completed properly.
			Section	LED/ICU PWB
		Case 1	Cause	Disconnection of the LED head connector.
			Check & Remedy	Check connection of the LED head connector
		Case 2	Cause	Disconnection of the harness inside the LED head.
			Check & Remedy	Replace the LED head unit.
		Case 3	Cause	ICU PWB abnormality
			Check & Remedy	Replace the ICU PWB.

Main code	Sub code	Title	**LED controller initial trouble (Magenta)**	
E7	**22**	Display	Lamp/Message	
		Phenomenon	Detail	The initial process of the LED controller cannot be completed properly.
			Section	LED/ICU PWB
		Case 1	Cause	Disconnection of the LED head connector.
			Check & Remedy	Check connection of the LED head connector
		Case 2	Cause	Disconnection of the harness inside the LED head.
			Check & Remedy	Replace the LED head unit.
		Case 3	Cause	ICU PWB abnormality
			Check & Remedy	Replace the ICU PWB.

Main code	Sub code	Title	**LED controller initial trouble (Yellow)**	
E7	**23**	Display	Lamp/Message	
		Phenomenon	Detail	The initial process of the LED controller cannot be completed properly.
			Section	LED/ICU PWB
		Case 1	Cause	Disconnection of the LED head connector
			Check & Remedy	Check connection of the LED head connector.
		Case 2	Cause	Disconnection of the harness inside the LED head.
			Check & Remedy	Replace the LED head unit.
		Case 3	Cause	ICU PWB abnormality
			Check & Remedy	Replace the ICU PWB.

Main code	Sub code	Title	**LED controller output trouble (Black)**	
E7	**24**	Display	Lamp/Message	
		Phenomenon	Detail	When printing, the print end signal for each page is not properly provided.
			Section	LED/ICU PWB
		Case 1	Cause	Disconnection of the LED head connector.
			Check & Remedy	Check connection of the LED head connector.
		Case 2	Cause	Disconnection of the harness inside the LED head.
			Check & Remedy	Replace the LED head unit.
		Case 3	Cause	ICU PWB abnormality
			Check & Remedy	Replace the ICU PWB.

Main code	Sub code	Title	**LED controller output trouble (Cyan)**	
E7	**25**	Display	Lamp/Message	
		Phenomenon	Detail	When printing, the print end signal for each page is not properly provided.
			Section	LED/ICU PWB
		Case 1	Cause	Disconnection of the LED head connector.
			Check & Remedy	Check connection of the LED head connector.
		Case 2	Cause	Disconnection of the harness inside the LED head.
			Check & Remedy	Replace the LED head unit.
		Case 3	Cause	ICU PWB abnormality
			Check & Remedy	Replace the ICU PWB.

Main code	Sub code	Title	**LED controller output trouble (Magenta)**	
E7	**26**	Display	Lamp/Message	
		Phenomenon	Detail	When printing, the print end signal for each page is not properly provided.
			Section	LED/ICU PWB
		Case 1	Cause	Disconnection of the LED head connector.
			Check & Remedy	Check connection of the LED head connector.
		Case 2	Cause	Disconnection of the harness inside the LED head.
			Check & Remedy	Replace the LED head unit.
		Case 3	Cause	ICU PWB abnormality
			Check & Remedy	Replace the ICU PWB.

Main code	Sub code	Title	**LED controller output trouble (Yellow)**	
E7	**27**	Display	Lamp/Message	
		Phenomenon	Detail	When printing, the print end signal for each page is not properly provided.
			Section	LED/ICU PWB
		Case 1	Cause	Disconnection of the LED head connector
			Check & Remedy	Check connection of the LED head connector.
		Case 2	Cause	Disconnection of the harness inside the LED head.
			Check & Remedy	Replace the LED head unit
		Case 3	Cause	ICU PWB abnormality
			Check & Remedy	Replace the ICU PWB.

Main code	Sub code	Title	**LED control ASIC connection abnormality**	
E7	**28**	Display	Lamp/Message	
		Phenomenon	Detail	Access error between the PCU PWB CPU and the LED control ASIC
			Section	ICU/PCU PWB
		Case 1	Cause	Disconnection of the ICU/ PCU PWB communication connector
			Check & Remedy	Check connection of the ICU/PCU PWB communication connector
		Case 2	Cause	ICU/PCU PWB communication harness trouble.
			Check & Remedy	Check the ICU/PCU PWB communication harness.
		Case 3	Cause	ICU PWB/PCU PWB trouble
			Check & Remedy	Check grounding of the machine. Replace the ICU PWB or the PCU PWB.

Main code	Sub code	Title	**Color correction data write error**	
E7	**40**	Display	Lamp/Message	
		Phenomenon	Detail	Data write error to the Nand-Flash for holding color correction data
			Section	MFP PWB
		Case 1	Cause	Color correction data rewrite error
			Check & Remedy	Perform rewriting of color correction data again.
		Case 2	Cause	MFP PWB trouble
			Check & Remedy	Replace the MFP PWB.

Main code	Sub code	Title	**Color correction data transfer abnormality**	
E7	**41**	Display	Lamp/Message	
		Phenomenon	Detail	Data transfer error from the Nand-Flash for holding color correction data to the FC-RAM for holding color correction image process
			Section	MFP PWB
		Case 1	Cause	MFP PWB trouble
			Check & Remedy	Replace the MFP PWB.

Main code	Sub code	Title	**ICU-SCN communication trouble (ICU detection)**	
E7	**80**	Display	Lamp/Message	
		Phenomenon	Detail	Communication establishment error, framing, parity, protocol error
			Section	ICU/MFP PWB
		Case 1	Cause	Disconnection of the ICU/MFP PWB scanner communication connector. Defective harness of the ICU PWB and the MFP PWB.
			Check & Remedy	Check connection of the ICU PWB and the MFP PWB. Check the harness.
		Case 2	Cause	ICU/MFP PWB trouble
			Check & Remedy	Check grounding of the machine. Replace the ICU PWB or the MFP PWB.

Main code	Sub code	Title	**ICU-PCU communication trouble (ICU detection)**	
E7	**90**	Display	Lamp/Message	
		Phenomenon	Detail	Communication establishment error, framing, parity, protocol error
			Section	ICU/PCU PWB
		Case 1	Cause	Disconnection of the ICU/PCU PWB scanner communication connector. Defective harness of the ICU PWB and the PCU PWB.
			Check & Remedy	Check connection of the ICU PWB and the PCU PWB. Check the harness.
		Case 2	Cause	ICU/PCU PWB trouble
			Check & Remedy	Check grounding of the machine. Replace the ICU PWB or the PCU PWB.

Main code	Sub code	Title	**Finisher communication trouble (Machine detection)**	
F1	**00**	Display	Lamp/Message	
		Phenomenon	Detail	Communication line test error when turning on the power or after canceling the exclusive simulation. Communication error with the finisher.
			Section	PCU PWB and finisher
		Case 1	Cause	Disconnection of the PCU-finisher connector, defective contact or disconnection of the harness.
			Check & Remedy	Check the connector and the harness of the communication line.
		Case 2	Cause	Finisher control PWB trouble
			Check & Remedy	Replace the finisher control PWB.
		Case 3	Cause	Control PWB (PCU) trouble
			Check & Remedy	Replace the PCU PWB.
		Case 4	Cause	Malfunctions by noises
			Check & Remedy	—
		Common	Cancel method	Can be canceled by turning OFF/ON the power.

Main code	Sub code	Title	**Finisher transport motor trouble (Finisher detection)**	
F1	**02**	Display	Lamp/Message	
		Phenomenon	Detail	Transport motor drive trouble
			Section	Transport
		Case 1	Cause	Motor lock
			Check & Remedy	Use SIM 3-3 to check the transport motor operation.
		Case 2	Cause	Motor RPM abnormality
			Check & Remedy	Same as Case 1.
		Case 3	Cause	Over current to the motor
			Check & Remedy	Same as Case 1.
		Case 4	Cause	Console finisher control PWB trouble
			Check & Remedy	Same as Case 1.

Main code	Sub code	Title	**Finisher paddle motor trouble**	
F1	**03**	Display	Lamp/Message	
		Phenomenon	Detail	Paddle motor operation trouble
			Section	Finisher
		Case 1	Cause	Motor lock
			Check & Remedy	Use SIM 3-3 to check the motor operation.
		Case 2	Cause	Motor RPM abnormality
			Check & Remedy	Same as Case 1.
		Case 3	Cause	Over current to the motor
			Check & Remedy	Same as Case 1.
		Case 4	Cause	Console finisher control PWB trouble
			Check & Remedy	Same as Case 1.

Main code	Sub code	Title	**Finisher slide motor trouble**	
F1	**06**	Display	Lamp/Message	
		Phenomenon	Detail	Slide motor operation trouble
			Section	Finisher
		Case 1	Cause	Motor lock
			Check & Remedy	Use SIM 3-3 to check the motor operation.
		Case 2	Cause	Motor RPM abnormality
			Check & Remedy	Same as Case 1.
		Case 3	Cause	Over current to the motor
			Check & Remedy	Same as Case 1.
		Case 4	Cause	Console finisher control PWB trouble
			Check & Remedy	Same as Case 1.

Main code	Sub code	Title	**Finisher staple motor trouble (Finisher detection)**	
F1	**10**	Display	Lamp/Message	
		Phenomenon	Detail	Stapling operation trouble
			Section	Finisher
		Case 1	Cause	Motor lock
			Check & Remedy	Use SIM 3-3 to check the staple motor operation.
		Case 2	Cause	Motor RPM abnormality
			Check & Remedy	Same as Case 1.
		Case 3	Cause	Over current to the motor
			Check & Remedy	Same as Case 1.
		Case 4	Cause	Console finisher control PWB trouble
			Check & Remedy	Same as Case 1.

Main code	Sub code	Title	**Finisher bundle process motor trouble (Finisher detection)**	
F1	**11**	Display	Lamp/Message	
		Phenomenon	Detail	Bundle process motor trouble
			Section	Finisher
		Case 1	Cause	Motor lock
			Check & Remedy	Use SIM 3-3 to check the staple motor operation.
		Case 2	Cause	Motor RPM abnormality
			Check & Remedy	Same as Case 1.
		Case 3	Cause	Over current to the motor
			Check & Remedy	Same as Case 1.
		Case 4	Cause	Console finisher control PWB trouble
			Check & Remedy	Same as Case 1.

Main code	Sub code	Title	**Finisher tray lift motor trouble (Finisher detection)**	
F1	**15**	Display	Lamp/Message	
		Phenomenon	Detail	Lift motor trouble
			Section	Finisher
		Case 1	Cause	Motor lock
			Check & Remedy	Use SIM 3-3 to check the staple motor operation.
		Case 2	Cause	Motor RPM abnormality
			Check & Remedy	Same as Case 1.
		Case 3	Cause	Over current to the motor
			Check & Remedy	Same as Case 1.
		Case 4	Cause	Console finisher control PWB trouble
			Check & Remedy	Same as Case 1.

Main code	Sub code	Title	**Finisher front alignment motor trouble (Finisher detection)**	
F1	**19**	Display	Lamp/Message	
		Phenomenon	Detail	Front alignment motor trouble
			Section	Finisher
		Case 1	Cause	Motor lock
			Check & Remedy	Use SIM 3-3 to check the staple motor operation.
		Case 2	Cause	Motor RPM abnormality
			Check & Remedy	Same as Case 1.
		Case 3	Cause	Over current to the motor
			Check & Remedy	Same as Case 1.
		Case 4	Cause	Console finisher control PWB trouble
			Check & Remedy	Same as Case 1.

Main code	Sub code	Title	**Finisher rear alignment motor trouble (Finisher detection)**	
F1	**20**	Display	Lamp/Message	
		Phenomenon	Detail	Rear alignment motor trouble
			Section	Finisher
		Case 1	Cause	Motor lock
			Check & Remedy	Use SIM 3-3 to check the staple motor operation.
		Case 2	Cause	Motor RPM abnormality
			Check & Remedy	Same as Case 1.
		Case 3	Cause	Over current to the motor
			Check & Remedy	Same as Case 1.
		Case 4	Cause	Console finisher control PWB trouble
			Check & Remedy	Same as Case 1.

Main code	Sub code	Title	Finisher fold sensor trouble	
F1	31	Display	Lamp/Message	
		Phenomenon	Detail	Sensor input value abnormality
			Section	Finisher
		Case 1	Cause	Sensor breakage
			Check & Remedy	Use SIM 3-2 to check the sensor operation.
		Case 2	Cause	Harness disconnection
			Check & Remedy	Same as case 1.
		Case 3	Cause	Console finisher control PWB trouble
			Check & Remedy	Same as Case 1.

Main code	Sub code	Title	Finisher punch unit communication trouble	
F1	32	Display	Lamp/Message	
		Phenomenon	Detail	Communication error between the console finisher and the punch unit
			Section	Finisher
		Case 1	Cause	Improper connection or disconnection of the connector and the harness of the console finisher and the punch unit.
			Check & Remedy	Check the connector and the harness of the communication line.
		Case 2	Cause	Control PWB (PCU) trouble
			Check & Remedy	Replace the PCU PWB.
		Case 3	Cause	Console finisher control PWB trouble
			Check & Remedy	Replace the console finisher control PWB.
		Case 4	Cause	Malfunction by noises
			Check & Remedy	
		Common	Cancel method	Can be canceled by turning OFF/ON the power.

Main code	Sub code	Title	Finisher punch side registration motor trouble	
F1	33	Display	Lamp/Message	
		Phenomenon	Detail	Punch side registration motor operation trouble
			Section	Finisher
		Case 1	Cause	Motor lock
			Check & Remedy	Use SIM 3-3 to check the staple motor operation.
		Case 2	Cause	Motor RPM abnormality
			Check & Remedy	Same as Case 1.
		Case 3	Cause	Over current to the motor
			Check & Remedy	Same as Case 1.
		Case 4	Cause	Console finisher control PWB trouble
			Check & Remedy	Same as Case 1.

Main code	Sub code	Title	Finisher punch motor trouble	
F1	34	Display	Lamp/Message	
		Phenomenon	Detail	Punch motor operation trouble
			Section	Finisher
		Case 1	Cause	Motor lock
			Check & Remedy	Use SIM 3-3 to check the staple motor operation.
		Case 2	Cause	Motor RPM abnormality
			Check & Remedy	Same as Case 1.
		Case 3	Cause	Over current to the motor
			Check & Remedy	Same as Case 1.
		Case 4	Cause	Console finisher control PWB trouble
			Check & Remedy	Same as Case 1.

Main code	Sub code	Title	Finisher punch side registration sensor trouble	
F1	35	Display	Lamp/Message	
		Phenomenon	Detail	Sensor input value abnormality
			Section	Finisher
		Case 1	Cause	Sensor breakage
			Check & Remedy	Use SIM 3-2 to check the sensor operation.
		Case 2	Cause	Harness disconnection
			Check & Remedy	Same as case 1.
		Case 3	Cause	Console finisher control PWB trouble
			Check & Remedy	Same as Case 1.

Main code	Sub code	Title	Finisher punch registration sensor trouble	
F1	36	Display	Lamp/Message	
		Phenomenon	Detail	Sensor input value abnormality
			Section	Finisher
		Case 1	Cause	Sensor breakage
			Check & Remedy	Use SIM 3-2 to check the sensor operation.
		Case 2	Cause	Harness disconnection
			Check & Remedy	Same as case 1.
		Case 3	Cause	Console finisher control PWB trouble
			Check & Remedy	Same as Case 1.

Main code	Sub code	Title	**Finisher/sorter backup RAM trouble**	
F1	**37**	Display	Lamp/Message	
		Phenomenon	Detail	• Abnormal transformation of backup RAM contents • Writing to the backup RAM is started but is not completed in 250msec. • When writing to the backup RAM, if the write data do not coincide with the read data, writing is performed again. After writing again, the write data still do not coincide with the read data. • Backup RAM trouble • Sorter control PWB trouble
			Section	Finisher/sorter
		Case 1	Cause	Console finisher control PWB trouble
			Check & Remedy	Replace the console finisher control PWB.
		Case 2	Cause	Malfunction caused by noises
			Check & Remedy	
		Case 3	Cause	Sorter control PWB trouble
			Check & Remedy	Turn OFF/ON the machine power, and check that the trouble is canceled or not. Replace the sorter controller PWB, and execute the bin paper sensor sensitivity adjustment and the guide bar motor oscillation range adjustment. (For the adjustment procedures, refer to pages 5-1 and 5-2 (AR-S11 S/M).)

Main code	Sub code	Title	**Finisher punch backup RAM trouble**	
F1	**38**	Display	Lamp/Message	
		Phenomenon	Detail	Abnormal transformation of punch unit backup RAM contents
			Section	Finisher
		Case 1	Cause	Punch control PWB trouble
			Check & Remedy	Replace the punch control PWB.
		Case 2	Cause	Malfunction caused by noises
			Check & Remedy	

Main code	Sub code	Title	**Finisher punch dust sensor trouble**	
F1	**39**	Display	Lamp/Message	
		Phenomenon	Detail	Punch dust sensor detection trouble
			Section	Finisher
		Case 1	Cause	Sensor breakage
			Check & Remedy	Use SIM 3-2 to check the sensor operation.
		Case 2	Cause	Harness disconnection
			Check & Remedy	Same as Case 1.
		Case 3	Cause	Console finisher control PWB trouble
			Check & Remedy	Same as Case 1.

Main code	Sub code	Title	**Finisher punch power disconnection trouble**	
F1	**40**	Display	Lamp/Message	
		Phenomenon	Detail	The power disconnection of the punch unit is detected.
			Section	Finisher
		Case 1	Cause	Harness disconnection
			Check & Remedy	Use SIM 3-3 to check the punching operation.
		Case 2	Cause	Punch control PWB trouble
			Check & Remedy	Same as Case 1.

Main code	Sub code	Title	**Sorter guide bar oscillation motor (M3) lock**	
F1	**83**	Display	Lamp/Message	
		Phenomenon	Detail	• When returning to the home position, the operation is not completed in 2sec. • When moving from the home position, the home position sensor keeps ON after 20-pulse operation. • Guide bar drive motor trouble • Guide bar home position sensor trouble • Guide bar mechanism section trouble • Circuit breaker operates. • Sorter control PWB trouble • Check the guide bar drive motors and sensors with SIM 3-2, 3.
			Section	Sorter
		Case 1	Cause	Guide bar home position sensor (PI3) trouble
			Check & Remedy	Check the guide bar home position sensor. Is it normal? Replace the sensor.

Main code	Sub code	Title	**Sorter guide bar oscillation motor (M3) lock**	
F1	**83**	Case 2	Cause	Cable trouble
			Check & Remedy	Check connection of the cable between the guide bar oscillation motor and the sorter controller PWB. Is it proper? Connect properly.
		Case 3	Cause	Circuit breaker trouble
			Check & Remedy	Check that the circuit breaker (CB1) on the sorter controller PWB. Did it operate? Remove the cause that operated the circuit breaker, and push the circuit breaker.
		Case 4	Cause	Guide bar trouble
			Check & Remedy	Check for any mechanical obstruction on the moving path of the guide bar. Is there any obstruction? Repair the mechanism.
		Case 5	Cause	Sorter control PWB trouble
			Check & Remedy	Replace the guide bar oscillation motor (M3) and check that the trouble is canceled or not. Replace the sorter controller PWB, and execute the bin paper sensor sensitivity adjustment and the guide bar motor oscillation range adjustment. (For the adjustment procedures, refer to pages 5-1 and 5-2 (AR-S11 S/M).)

Main code	Sub code	Title	**Sorter bin shift motor lock (M1)**	
F1	**89**	Display	Lamp/Message	
		Phenomenon	Detail	• The operation is not completed in the time which is 4 times greater than the specified time after starting the bin shift motor. • When driving the bin shift motor, the signal from the shift motor lock sensor is not detected for 250msec. • When shifting to the home position, the operation is not completed in 30 sec. • Bin shift motor trouble • Lead cam position sensor trouble • Bin shift mechanism trouble • Circuit breaker operation • Sorter control PWB trouble • Check the operation of the bin shift motor and the sensor with SIM 3-3.
			Section	Sorter

Main code	Sub code	Title	**Sorter bin shift motor lock (M1)**	
F1	**89**	Case 1	Cause	Cable trouble
			Check & Remedy	Check that the cable between the bin shift motor and the sorter controller PWB is properly connected. Connect properly.
		Case 2	Cause	Circuit breaker trouble
			Check & Remedy	Check that the circuit breaker (CB1) on the sorter controller PWB is operating. Remove the cause of the circuit breaker operation, and press the circuit breaker.
		Case 3	Cause	Bin shift motor (M1) trouble Sorter controller PWB trouble
			Check & Remedy	Check that the voltage between the connector J8-1 and J8-2 on the bin shift motor driver PWB is about 24V at the operating timing of the bin shift motor (M1). Check the wiring to the bin shift motor. If it is normal, replace the bin shift motor. Replace the sorter controller PWB, and perform the bin paper sensor sensitivity adjustment and the guide bar motor oscillation range adjustment. (For the procedures, refer to pages 5-1 to 5-2 (AR-S11 S/M).)

Main code	Sub code	Title	**Sorter bin paper sensor automatic adjustment trouble**	
F1	**91**	Display	Lamp/Message	
		Phenomenon	Detail	• The sensor output abnormality in the sensor detection level adjustment • Bin paper sensor trouble • Sorter control PWB trouble • Check the sensor output with SIM 3-2.
			Section	Sorter
		Case 1	Cause	Cable trouble
			Check & Remedy	Check that the cable between the sorter controller PWB and the bin unit is properly connected. Connect properly.
		Case 2	Cause	Cable trouble
			Check & Remedy	Check that the cable between the bin paper sensor light emitting side (S1) and the light receiving side (S2) is properly connected. Connect properly.

Main code	Sub code	Title	**Sorter bin paper sensor automatic adjustment trouble**	
F1	**91**	Case 3	Cause	Installation of bin paper sensor light emitting side (S1) and light receiving side (S2) trouble
			Check & Remedy	Check that the bin paper sensor light emitting side (S1) and the light receiving side (S2) are properly installed. Connect properly. When the bin paper sensor light emitting side (S1) and the light receiving side (S2) are installed again, perform the bin paper sensor sensitivity adjustment. (For the procedure, refer to page 5-1 (AR-S11 S/M).)
		Case 4	Cause	Bin paper sensor light emitting side (S1) and light receiving side (S2) trouble Sorter controller PWB trouble
			Check & Remedy	When the bin paper sensor light emitting side (S1) and the light receiving side (S2) are replaced and the bin paper sensor sensitivity adjustment is performed, the trouble is canceled. Replace the bin paper sensor light emitting side (S1) and the light receiving side (S2) and perform the bin paper sensor sensitivity adjustment. (For the procedure, refer to page 5-1 (AR-S11 S/M).) Replace the sorter controller PWB, and perform the bin paper sensor sensitivity adjustment and the guide bar motor oscillation range adjustment. (For the procedures, refer to pages 5-1 to 5-2 (AR-S11 S/M).)

Main code	Sub code	Title	**Drum cartridge initial detection trouble (Black)**	
F2	**15**	Display	Lamp/Message	
		Phenomenon	Detail	Drum cartridge initial detection trouble
			Section	Drum cartridge
		Case 1	Cause	Connector harness trouble, connector disconnection
			Check & Remedy	1. Check connection of the drum cartridge initial sensor. → Connect it properly. 2. Check connection of the connector harness and the PCU PWB. → Connect it properly. 3. Check for disconnection of the harness. → Replace the harness.
		Case 2	Cause	Cartridge trouble
			Check & Remedy	Replace the cartridge.

Main code	Sub code	Title	**Drum cartridge initial detection trouble (Cyan)**	
F2	**16**	Display	Lamp/Message	
		Phenomenon	Detail	Drum cartridge initial detection trouble
			Section	Drum cartridge
		Case 1	Cause	Connector harness trouble, connector disconnection
			Check & Remedy	1. Check connection of the drum cartridge initial sensor. → Connect it properly. 2. Check connection of the connector harness and the PCU PWB. → Connect it properly. 3. Check for disconnection of the harness. → Replace the harness.
		Case 2	Cause	Cartridge trouble
			Check & Remedy	Replace the cartridge.

Main code	Sub code	Title	**Drum cartridge initial detection trouble (Magenta)**	
F2	**17**	Display	Lamp/Message	
		Phenomenon	Detail	Drum cartridge initial detection trouble
			Section	Drum cartridge
		Case 1	Cause	Connector harness trouble, connector disconnection
			Check & Remedy	1. Check connection of the drum cartridge initial sensor. → Connect it properly. 2. Check connection of the connector harness and the PCU PWB. → Connect it properly. 3. Check for disconnection of the harness. → Replace the harness.
		Case 2	Cause	Cartridge trouble
			Check & Remedy	Replace the cartridge.

Main code	Sub code	Title	**Drum cartridge initial detection trouble (Yellow)**	
F2	**18**	Display	Lamp/Message	
		Phenomenon	Detail	Drum cartridge initial detection trouble
			Section	Drum cartridge
		Case 1	Cause	Connector harness trouble, connector disconnection
			Check & Remedy	1. Check connection of the drum cartridge initial sensor. → Connect it properly. 2. Check connection of the connector harness and the PCU PWB. → Connect it properly. 3. Check for disconnection of the harness. → Replace the harness.
		Case 2	Cause	Cartridge trouble
			Check & Remedy	Replace the cartridge.

Main code	Sub code	Title	**Transfer unit initial detection trouble**	
F2	**19**	Display	Lamp/Message	
		Phenomenon	Detail	Transfer unit initial detection trouble
			Section	Transfer unit
		Case 1	Cause	Connector harness trouble, connector disconnection
			Check & Remedy	Check connection of the transfer unit initial sensor. Check connection of the connector and the harness of the PCU PWB. Check for disconnection of the harness.
		Case 2	Cause	Unit trouble
			Check & Remedy	Replace the unit.

Main code	Sub code	Title	**Process thermistor breakdown**	
F2	**39**	Display	Lamp/Message	
		Phenomenon	Detail	Process thermistor open
			Section	Drum cartridge
		Case 1	Cause	Process thermistor trouble
			Check & Remedy	Replace the process thermistor.
		Case 2	Cause	Disconnection of the process thermistor harness.
			Check & Remedy	Check connection of the connector and the harness of the process thermistor.
		Case 3	Cause	PCU PWB trouble
			Check & Remedy	Replace the PCU PWB.

Main code	Sub code	Title	**Toner empty sensor abnormality (Black)**	
F2	**40**	Display	Lamp/Message	
		Phenomenon	Detail	Toner empty sensor output abnormality
			Section	Cartridge
		Case 1	Cause	Connector harness trouble, connector disconnection
			Check & Remedy	1. Check connection of the toner empty sensor. → Connect it properly. 2. Check connection of the connector harness to the PCU PWB. → Connect it properly. 3. Check connection of the cartridge. → Connect it properly. 4. Check for disconnection of the harness. → Replace the harness.
		Case 2	Cause	Cartridge trouble
			Check & Remedy	Replace the cartridge.

Main code	Sub code	Title	**Toner empty sensor abnormality (Cyan)**	
F2	**41**	Display	Lamp/Message	
		Phenomenon	Detail	Toner empty sensor output abnormality
			Section	Cartridge
		Case 1	Cause	Connector harness trouble, connector disconnection
			Check & Remedy	1. Check connection of the toner empty sensor. → Connect it properly. 2. Check connection of the connector harness to the PCU PWB. → Connect it properly. 3. Check connection of the cartridge. → Connect it properly. 4. Check for disconnection of the harness. → Replace the harness.
		Case 2	Cause	Cartridge trouble
			Check & Remedy	Replace the cartridge.

Main code	Sub code	Title	**Toner empty sensor abnormality (Magenta)**	
F2	**42**	Display	Lamp/Message	
		Phenomenon	Detail	Toner empty sensor output abnormality
			Section	Cartridge
		Case 1	Cause	Connector harness trouble, connector disconnection
			Check & Remedy	1. Check connection of the toner empty sensor. → Connect it properly. 2. Check connection of the connector harness to the PCU PWB. → Connect it properly. 3. Check connection of the cartridge. → Connect it properly. 4. Check for disconnection of the harness. → Replace the harness.
		Case 2	Cause	Cartridge trouble
			Check & Remedy	Replace the cartridge.

Main code	Sub code	Title	**Toner empty sensor abnormality (Yellow)**	
F2	**43**	Display	Lamp/Message	
		Phenomenon	Detail	Toner empty sensor output abnormality
			Section	Cartridge
		Case 1	Cause	Connector harness trouble, connector disconnection
			Check & Remedy	1. Check connection of the toner empty sensor. → Connect it properly. 2. Check connection of the connector harness to the PCU PWB. → Connect it properly. 3. Check connection of the cartridge. → Connect it properly. 4. Check for disconnection of the harness. → Replace the harness.
		Case 2	Cause	Cartridge trouble
			Check & Remedy	Replace the cartridge.

Main code	Sub code	Title	**Black image density sensor trouble (Transfer belt surface reflection ratio abnormality)**	
F2	**44**	Display	Lamp/Message	
		Phenomenon	Detail	Before starting process control, the transfer belt surface is scanned with the image density sensor to adjust the sensor gain so that the output becomes a fixed value. However, when the sensor gain is changed, the output is not within the specified range.
			Section	
		Common	Check	Use SIM 44-2 to adjust the process control sensor gain.
		Case 1	Cause	When "Error" occurs in SIM 44-2: 1. Dirt/defect of the image density sensor 2. Disconnection of the harness between the PCU PWB and the image density sensor 3. Calibration plate solenoid operation trouble
			Check & Remedy	1. Clean/replace the image density sensor. 2. Connect/replace the harness between the PCU PWB and the image density sensor. 3. Replace the calibration plate solenoid.
		Case 2	Cause	When SIM 44-2 is completed: 1. Insufficient cleaning of the transfer belt.
			Check & Remedy	1. Check the transfer belt surface.

Main code	Sub code	Title	**Color image density sensor trouble (Calibration plate surface reflection ratio abnormality)**	
F2	**45**	Display	Lamp/Message	
		Phenomenon	Detail	Before starting process control, the calibration plate surface is scanned with the image density sensor to adjust the sensor gain so that the output becomes a fixed value. However, when the sensor gain is changed, the output is not within the specified range.
			Section	—
		Common	Check	Use SIM 44-2 to adjust the process control sensor gain.
		Case 1	Cause	When "Error" occurs in SIM 44-2: 1. Dirt/defect of the image density sensor 2. Disconnection of the harness between the PCU PWB and the image density sensor
			Check & Remedy	1. Clean/replace the image density sensor. 2. Connect/replace the harness between the PCU PWB and the image density sensor.
		Case 2	Cause	When SIM 44-2 is completed: 1. Dirt on the calibration plate, calibration plate solenoid operation trouble
			Check & Remedy	1. Clean the calibration plate. Replace the calibration plate solenoid.

Main code	Sub code	Title	**Process humidity sensor breakdown**	
F2	**58**	Display	Lamp/Message	
		Phenomenon	Detail	Process humidity sensor open
			Section	Process
		Case 1	Cause	Process humidity sensor harness disconnection
			Check & Remedy	Check connection of the process humidity sensor harness.
		Case 2	Cause	Process humidity sensor trouble
			Check & Remedy	Replace the process humidity sensor.
		Case 3	Cause	PCU PWB trouble
			Check & Remedy	Replace the PCU PWB.

Main code	Sub code	Title	**Developing unit improper cartridge detection (Black)**	
F2	**70**	Display	Lamp/Message	
		Phenomenon	Detail	When detecting the normal CRUM of the cartridge, improper data are detected in the CRUM contents.
			Section	Developing
		Case 1	Cause	Insertion of an improper cartridge. Developing unit trouble
			Check & Remedy	Replace the developing unit.

Main code	Sub code	Title	**Developing unit improper cartridge detection (Cyan)**	
F2	**71**	Display	Lamp/Message	
		Phenomenon	Detail	When detecting the normal CRUM of the cartridge, improper data are detected in the CRUM contents.
			Section	Developing
		Case 1	Cause	Insertion of an improper cartridge. Developing unit trouble
			Check & Remedy	Replace the developing unit.

Main code	Sub code	Title	**Developing unit improper cartridge detection (Magenta)**	
F2	**72**	Display	Lamp/Message	
		Phenomenon	Detail	When detecting the normal CRUM of the cartridge, improper data are detected in the CRUM contents.
			Section	Developing
		Case 1	Cause	Insertion of an improper cartridge. Developing unit trouble
			Check & Remedy	Replace the developing unit.

Main code	Sub code	Title	**Developing unit improper cartridge detection (Yellow)**	
F2	**73**	Display	Lamp/Message	
		Phenomenon	Detail	When detecting the normal CRUM of the cartridge, improper data are detected in the CRUM contents.
			Section	Developing
		Case 1	Cause	Insertion of an improper cartridge. Developing unit trouble
			Check & Remedy	Replace the developing unit.

Main code	Sub code	Title	**Developing unit CRUM trouble (Black)**	
F2	**74**	Display	Lamp/Message	
		Phenomenon	Detail	CRUM read/write error
			Section	Developing
		Case 1	Cause	Improper connection or disconnection of the connector and the harness between the PCU and the CRUM.
			Check & Remedy	Check the connector and the harness between the PCU and the CRUM.
		Case 2	Cause	Developing unit trouble
			Check & Remedy	Replace the developing unit.
		Case 3	Cause	Control PWB (PCU) trouble
			Check & Remedy	Replace the PCU PWB.

Main code	Sub code	Title	**Developing unit CRUM trouble (Cyan)**	
F2	**75**	Display	Lamp/Message	
		Phenomenon	Detail	CRUM read/write error
			Section	Developing
		Case 1	Cause	Improper connection or disconnection of the connector and the harness between the PCU and the CRUM.
			Check & Remedy	Check the connector and the harness between the PCU and the CRUM.
		Case 2	Cause	Developing unit trouble
			Check & Remedy	Replace the developing unit.
		Case 3	Cause	Control PWB (PCU) trouble
			Check & Remedy	Replace the PCU PWB.

Main code	Sub code	Title	**Developing unit CRUM trouble (Magenta)**	
F2	**76**	Display	Lamp/Message	
		Phenomenon	Detail	CRUM read/write error
			Section	Developing
		Case 1	Cause	Improper connection or disconnection of the connector and the harness between the PCU and the CRUM.
			Check & Remedy	Check the connector and the harness between the PCU and the CRUM.
		Case 2	Cause	Developing unit trouble
			Check & Remedy	Replace the developing unit.
		Case 3	Cause	Control PWB (PCU) trouble
			Check & Remedy	Replace the PCU PWB.

Main code	Sub code	Title	**Developing unit CRUM trouble (Yellow)**	
F2	**77**	Display	Lamp/Message	
		Phenomenon	Detail	CRUM read/write error
			Section	Developing
		Case 1	Cause	Improper connection or disconnection of the connector and the harness between the PCU and the CRUM.
			Check & Remedy	Check the connector and the harness between the PCU and the CRUM.
		Case 2	Cause	Developing unit trouble
			Check & Remedy	Replace the developing unit.
		Case 3	Cause	Control PWB (PCU) trouble
			Check & Remedy	Replace the PCU PWB.

Main code	Sub code	Title	**Trouble of image density sensor for registration (Transfer belt surface reflection ratio abnormality)**	
F2	**78**	Display	Lamp/Message	
		Phenomenon	Detail	Before starting registration, the transfer belt surface is scanned with the image density sensor to adjust the sensor gain so that the output becomes a fixed value. However, when the sensor gain is changed, the value is not within the specified range.
			Section	—
		Case 1	Cause	Image density sensor trouble, disconnection of the harness between the PCU PWB and the image density sensor, dirt on the image density sensor.
			Check & Remedy	Check the sensor and the harness.
		Case 2	Cause	Calibration plate solenoid operation trouble
			Check & Remedy	Check the calibration plate solenoid operation.
		Case 3	Cause	Insufficient cleaning of the transfer belt.
			Check & Remedy	Check the transfer belt surface.

Main code	Sub code	Title	**Half-tone process control 1st batch trouble (Black)**	
F2	**80**	Display	Lamp/Message	
		Phenomenon	Detail	First step operation error during half-tone process control
			Section	—
		Common	Check	Use SIM 44-2 to adjust the process control sensor gain.
		Case 1	Cause	When "Error" occurs in the gain adjustment of SIM 44-2: 1. Disconnection of the harness between the PCU PWB and the image density sensor. 2. Image density sensor dirt/trouble
			Check & Remedy	1. Check connection of the harness between the PCU PWB and the image density sensor. 2. Clean/replace the image density sensor.
		Case 2	Cause	When SIM 44-2 gain adjustment is completed: Insufficient cleaning of the transfer belt, calibration plate solenoid operation trouble
			Check & Remedy	Check the drum surface and the belt surface.

Main code	Sub code	Title	**Half-tone process control 1st batch trouble (Cyan)**	
F2	**81**	Display	Lamp/Message	
		Phenomenon	Detail	First step operation error during half-tone process control
			Section	—
		Common	Check	Use SIM 44-2 to adjust the process control sensor gain.
		Case 1	Cause	When "Error" occurs in the gain adjustment of SIM 44-2: 1. Disconnection of the harness between the PCU PWB and the image density sensor. 2. Image density sensor dirt/trouble
			Check & Remedy	1. Check connection of the harness between the PCU PWB and the image density sensor. 2. Clean/replace the image density sensor.
		Case 2	Cause	When SIM 44-2 gain adjustment is completed: Insufficient cleaning of the transfer belt, calibration plate solenoid operation trouble
			Check & Remedy	Check the drum surface and the belt surface.

Main code	Sub code	Title	**Half-tone process control 1st batch trouble (Magenta)**	
F2	**82**	Display	Lamp/Message	
		Phenomenon	Detail	First step operation error during half-tone process control
			Section	—
		Common	Check	Use SIM 44-2 to adjust the process control sensor gain.
		Case 1	Cause	When "Error" occurs in the gain adjustment of SIM 44-2: 1. Disconnection of the harness between the PCU PWB and the image density sensor. 2. Image density sensor dirt/trouble
			Check & Remedy	1. Check connection of the harness between the PCU PWB and the image density sensor. 2. Clean/replace the image density sensor.
		Case 2	Cause	When SIM 44-2 gain adjustment is completed: Insufficient cleaning of the transfer belt, calibration plate solenoid operation trouble
			Check & Remedy	Check the drum surface and the belt surface.

Main code	Sub code	Title	**Half-tone process control 1st batch trouble (Yellow)**	
F2	**83**	Display	Lamp/Message	
		Phenomenon	Detail	First step operation error during half-tone process control
			Section	—
		Common	Check	Use SIM 44-2 to adjust the process control sensor gain.
		Case 1	Cause	When "Error" occurs in the gain adjustment of SIM 44-2: 1. Disconnection of the harness between the PCU PWB and the image density sensor. 2. Image density sensor dirt/trouble
			Check & Remedy	1. Check connection of the harness between the PCU PWB and the image density sensor. 2. Clean/replace the image density sensor.
		Case 2	Cause	When SIM 44-2 gain adjustment is completed: Insufficient cleaning of the transfer belt, calibration plate solenoid operation trouble
			Check & Remedy	Check the drum surface and the belt surface.

Main code	Sub code	Title	**Half-tone process control 2nd batch trouble (Black)**	
F2	**84**	Display	Lamp/Message	
		Phenomenon	Detail	Second step operation error during half-tone process control
			Section	—
		Common	Check	Use SIM 44-2 to adjust the process control sensor gain.
		Case 1	Cause	When "Error" occurs in the gain adjustment of SIM 44-2: 1. Disconnection of the harness between the PCU PWB and the image density sensor. 2. Image density sensor dirt/trouble
			Check & Remedy	1. Check connection of the harness between the PCU PWB and the image density sensor. 2. Clean/replace the image density sensor.
		Case 2	Cause	When SIM 44-2 gain adjustment is completed: Insufficient cleaning of the transfer belt, calibration plate solenoid operation trouble
			Check & Remedy	Check the drum surface and the belt surface.

Main code	Sub code	Title	**Half-tone process control 2nd batch trouble (Cyan)**	
F2	**85**	Display	Lamp/Message	
		Phenomenon	Detail	Second step operation error during half-tone process control
			Section	—
		Common	Check	Use SIM 44-2 to adjust the process control sensor gain.
		Case 1	Cause	When "Error" occurs in the gain adjustment of SIM 44-2: 1. Disconnection of the harness between the PCU PWB and the image density sensor. 2. Image density sensor dirt/trouble
			Check & Remedy	1. Check connection of the harness between the PCU PWB and the image density sensor. 2. Clean/replace the image density sensor.
		Case 2	Cause	When SIM 44-2 gain adjustment is completed: Insufficient cleaning of the transfer belt, calibration plate solenoid operation trouble
			Check & Remedy	Check the drum surface and the belt surface.

Main code	Sub code	Title	**Half-tone process control 2nd batch trouble (Magenta)**	
F2	**86**	Display	Lamp/Message	
		Phenomenon	Detail	Second step operation error during half-tone process control
			Section	—
		Common	Check	Use SIM 44-2 to adjust the process control sensor gain.
		Case 1	Cause	When "Error" occurs in the gain adjustment of SIM 44-2: 1. Disconnection of the harness between the PCU PWB and the image density sensor. 2. Image density sensor dirt/trouble
			Check & Remedy	1. Check connection of the harness between the PCU PWB and the image density sensor. 2. Clean/replace the image density sensor.
		Case 2	Cause	When SIM 44-2 gain adjustment is completed: Insufficient cleaning of the transfer belt, calibration plate solenoid operation trouble
			Check & Remedy	Check the drum surface and the belt surface.

Main code	Sub code	Title	**Half-tone process control 2nd batch trouble (Yellow)**	
F2	**87**	Display	Lamp/Message	
		Phenomenon	Detail	Second step operation error during half-tone process control
			Section	—
		Common	Check	Use SIM 44-2 to adjust the process control sensor gain.
		Case 1	Cause	When "Error" occurs in the gain adjustment of SIM 44-2: 1. Disconnection of the harness between the PCU PWB and the image density sensor. 2. Image density sensor dirt/trouble
			Check & Remedy	1. Check connection of the harness between the PCU PWB and the image density sensor. 2. Clean/replace the image density sensor.
		Case 2	Cause	When SIM 44-2 gain adjustment is completed: Insufficient cleaning of the transfer belt, calibration plate solenoid operation trouble
			Check & Remedy	Check the drum surface and the belt surface.

Main code	Sub code	Title	**Half-tone process limit error**	
F2	**90**	Display	Lamp/Message	
		Phenomenon	Detail	The difference between the correction value after execution of half-tone process control and the previous correction value exceeds the specified max. value of each color. <The error is recorded in the trouble history, but F2 trouble is not indicated on the display and the previous correction value is remained.>
			Section	—
		Common	Check	Use SIM 44-2 to adjust the process control sensor gain.
		Case 1	Cause	When "Error" occurs in the gain adjustment of SIM 44-2: 1. Disconnection of the harness between the PCU PWB and the image density sensor. 2. Image density sensor dirt/trouble
			Check & Remedy	1. Check connection of the harness between the PCU PWB and the image density sensor. 2. Clean/replace the image density sensor.
		Case 2	Cause	When SIM 44-2 gain adjustment is completed: Insufficient cleaning of the transfer belt, calibration plate solenoid operation trouble
			Check & Remedy	Check the drum surface and the belt surface.

Main code	Sub code	Title	**Cassette 1 lift-up trouble**	
F3	**12**	Display	Lamp/Message	
		Phenomenon	Detail	LUD1 does not turn on within the specified time.
			Section	—
		Case 1	Cause	LUD1 sensor trouble, disconnection of harness among the PCU PWB, the lift-up unit, and the paper feed unit.
			Check & Remedy	Check LUD1, its harness, and the connector.
		Case 2	Cause	Cassette 1 lift-up motor trouble
			Check & Remedy	Check the lift-up unit.

Main code	Sub code	Title	**ICU-PRT communication trouble (ICU detection)**	
F9	**00**	Display	Lamp/Message	
		Phenomenon	Detail	Communication establishment error, framing, parity, protocol error
			Section	—
		Case 1	Cause	Defective connection of the ICU/PRT PWB communication connector, defective harness between the ICU PWB and the PRT PWB, defective ICU PWB/ PRT PWB
			Check & Remedy	Check connection and the harness between the ICU PWB and the MFP PWB. Check the machine earth. Replace the ICU or the PRT PWB.

Main code	Sub code	Title	**PRT DRAM trouble**	
F9	**01**	Display	Lamp/Message	
		Phenomenon	Detail	DRAM in the PRT PWB cannot be accessed.
			Section	—
		Case 1	Cause	Defective DRAM, defective installation of the DRAM
			Check & Remedy	Replace the DRAM. Check connection of the DRAM.

Main code	Sub code	Title	**NIC port check error**	
F9	**03**	Display	Lamp/Message	
		Phenomenon	Detail	NIC port check error
			Section	—
		Case 1	Cause	Defective connection of the NIC connector, defective NIC PWB, defective PRT PWB
			Check & Remedy	Check the NIC connector again. Replace the HDD. Replace the PRT PWB.

Main code	Sub code	Title	**HDD trouble (PRT controller detection)**	
F9	**20**	Display	Lamp/Message	
		Phenomenon	Detail	The HDD (option) does not operate normally in the machine with the HDD.
			Section	—
		Case 1	Cause	Defective connection of the HDD connector, defective HDD, defective PRT PWB
			Check & Remedy	Check the HDD again. Replace the HDD. Replace the PRT PWB.

Main code	Sub code	Title	**Thermistor open (HL1)**	
H2	**00**	Display	Lamp/Message	
		Phenomenon	Detail	Thermistor open
			Section	Fusing
		Case 1	Cause	Disconnection of the fusing section connector
			Check & Remedy	Check the connector and the harness between the thermistor and the control PWB.
		Case 2	Cause	The fusing unit is not installed.
			Check & Remedy	Install the fusing unit.
		Case 3	Cause	Thermistor trouble, control PWB trouble, AC power supply trouble
			Check & Remedy	Replace the thermistor or the control PWB. Check the AC power supply.

Main code	Sub code	Title	**Thermistor open (HL2)**	
H2	**01**	Display	Lamp/Message	
		Phenomenon	Detail	Thermistor open
			Section	Fusing
		Case 1	Cause	Disconnection of the fusing section connector
			Check & Remedy	Check the connector and the harness between the thermistor and the control PWB.
		Case 2	Cause	The fusing unit is not installed.
			Check & Remedy	Install the fusing unit.
		Case 3	Cause	Thermistor trouble, control PWB trouble, AC power supply trouble
			Check & Remedy	Replace the thermistor or the control PWB. Check the AC power supply.

Main code	Sub code	Title	**Fusing section high temperature trouble (THS1)**	
H3	**00**	Display	Lamp/Message	
		Phenomenon	Detail	The fusing temperature exceeds 230°C.
			Section	Fusing
		Common	Check	Use SIM 5-2 to check the heater lamp flashing operation.
		Case 1	Cause	The heater lamp flashes properly with SIM 5-2. Thermistor trouble, disconnection of the fusing section connector
			Check & Remedy	Check the thermistor and its harness. Cancel the error with SIM 14.
		Case 2	Cause	The heater lamp keeps ON with SIM 5-2. Control PWB trouble, AC power supply trouble
			Check & Remedy	Check the AC PWB and the control PWB lamp control circuit. Cancel the error with SIM 14.

Main code	Sub code	Title	**Fusing section high temperature trouble (THS2)**	
H3	**01**	Display	Lamp/Message	
		Phenomenon	Detail	The fusing temperature exceeds 230°C.
			Section	Fusing
		Common	Check	Use SIM 5-2 to check the heater lamp flashing operation.
		Case 1	Cause	The heater lamp flashes properly with SIM 5-2. Thermistor trouble, disconnection of the fusing section connector
			Check & Remedy	Check the thermistor and its harness. Cancel the error with SIM 14.
		Case 2	Cause	The heater lamp keeps ON with SIM 5-2. AC power supply trouble, control PWB trouble
			Check & Remedy	Check the AC PWB and the control PWB lamp control circuit. Cancel the error with SIM 14.

Main code	Sub code	Title	**Fusing section low temperature trouble (HL1)**	
H4	**00**	Display	Lamp/Message	
		Phenomenon	Detail	The fusing temperature is not reached within the specified time after turning on the power relay.
			Section	Fusing
		Common	Check	Use SIM 5-2 to check the heater lamp flashing operation.
		Case 1	Cause	The heater lamp flashes properly with SIM 5-2. Thermistor trouble, PCU PWB (thermistor input circuit) trouble
			Check & Remedy	Check the thermistor and its harness. Check the PCU PWB thermistor input circuit. Cancel the error with SIM 14.
		Case 2	Cause	The heater lamp keeps ON with SIM 5-2. Heater lamp trouble, thermostat trouble, interlock switch trouble, AC power supply trouble, PCU PWB (lamp control circuit) trouble
			Check & Remedy	Check for disconnection of the heater lamp and the thermostat. Check the interlock switch. Check the AC PWB and the PUC PWB lamp control circuit. Cancel the error with SIM 14.

Main code	Sub code	Title	**Fusing section low temperature trouble (HL2)**	
H4	**01**	Display	Lamp/Message	
		Phenomenon	Detail	The fusing temperature is not reached within the specified time after turning on the power relay.
			Section	Fusing
		Common	Check	Use SIM 5-2 to check the heater lamp flashing operation.
		Case 1	Cause	The heater lamp flashes properly with SIM 5-2. Thermistor trouble, PCU PWB (thermistor input circuit) trouble
			Check & Remedy	Check the thermistor and its harness. Check the PCU PWB thermistor input circuit. Cancel the error with SIM 14.
		Case 2	Cause	The heater lamp keeps ON with SIM 5-2. Heater lamp trouble, thermostat trouble, interlock switch trouble, AC power supply trouble, PCU PWB (lamp control circuit) trouble
			Check & Remedy	Check for disconnection of the heater lamp and the thermostat. Check the interlock switch. Check the AC PWB and the PUC PWB lamp control circuit. Cancel the error with SIM 14.

Main code	Sub code	Title	**Five continuous detections of POD1 not-reached jam**	
H5	**01**	Display	Lamp/Message	
		Phenomenon	Detail	POD1 not-reached jams are detected for five times continuously.
			Section	Fusing
		Case 1	Cause	A fusing jam is not canceled completely. (Jam paper remains inside the machine.)
			Check & Remedy	Check remaining jam paper (winding). Cancel the error with SIM 14.
		Case 2	Cause	POD1 sensor trouble, or harness disconnection
			Check & Remedy	Check POD1 sensor harness. Cancel the error with SIM 14.
		Case 3	Cause	Improper installation of the fusing unit
			Check & Remedy	Check installation of the fusing unit. Cancel the error with SIM 14.

Main code	Sub code	Title	**Fusing unit initial detection trouble**	
H8	**01**	Display	Lamp/Message	
		Phenomenon	Detail	Fusing unit initial detection trouble
			Section	Fusing
		Case 1	Cause	Disconnection of the connector
			Check & Remedy	Check connection of the fusing unit initial sensor. Check connection of the connector and the harness to the PCU PWB.
		Case 2	Cause	Connector harness trouble
			Check & Remedy	Check for disconnection of the harness.
		Case 3	Cause	Fusing unit trouble
			Check & Remedy	Replace the fusing unit.

Main code	Sub code	Title	**Mirror feed trouble**	
L1	**00**	Display	Lamp/Message	
		Phenomenon	Detail	Mirror feed is not completed within the specified time.
			Section	—
		Case 1	Cause	Mirror unit trouble, mirror wire breakage
			Check & Remedy	Use SIM 1-1 to check the mirror operation.

Main code	Sub code	Title	**Mirror return trouble**	
L3	**00**	Display	Lamp/Message	
		Phenomenon	Detail	Mirror return is not completed within the specified time.
			Section	—
		Case 1	Cause	Mirror unit trouble, mirror wire breakage
			Check & Remedy	Use SIM 1-1 to check the mirror operation.

Main code	Sub code	Title	**Paper feed motor lock trouble**	
L4	**02**	Display	Lamp/Message	
		Phenomenon	Detail	In warm-up, or in canceling a jam, the paper feed motor is rotated, and the lock signal is not detected within 1sec.
			Section	Paper feed
		Case 1	Cause	Paper feed motor trouble, disconnection of the harness between the PCU PWB and the paper feed motor, control circuit trouble
			Check & Remedy	Use SIM 6-1 to check the paper feed motor operation. Check the harness and the connector between the PCU PWB and the paper feed motor.

Main code	Sub code	Title	**Transfer belt lift motor trouble**	
L4	**06**	Display	Lamp/Message	
		Phenomenon	Detail	When the belt motor lifts up or down, the change in the belt home position sensor characteristics is not detected within the specified time. (When the motor lifts up, the lower limit sensor remains ON after the specified time.) (When the motor lifts down, the lower limit sensor does not turn on after the specified time.)
			Section	Paper feed
		Case 1	Cause	Belt lift motor trouble, disconnection of the harness between the PCU PWB and the belt lift motor, control circuit trouble
			Check & Remedy	Use SIM 6-1 to check the belt lift motor operation. Check the harness and the connector between the PCU PWB and the belt lift motor.

Main code	Sub code	Title	**Transfer belt motor trouble**	
L4	**07**	Display	Lamp/Message	
		Phenomenon	Detail	1) Before driving the drum, the calibration plate is opened with the process control BK sensor, and light is emitted with the gain value of 0 and with the light emitting quantity fixed to 120. The average of ten light quantities repeats to be 5 or less for 3 times continuously. 2) Immediately after driving the drum, the calibration plate is opened with the process control BK sensor, and one whole turn of the belt surface is scanned with the gain value of 0 and with the light emitting quantity at the optimum value (120 ~ 50). The difference between the max. value and the min. value of the scanned data is 5 or less.
			Section	Paper feed

Main code	Sub code	Title	**Transfer belt motor trouble**	
L4	**07**	Case 1	Cause	Transfer belt motor connector disconnection, process control sensor connector disconnection, process control BK sensor defect, defective connection of the harness between the PCU PWB and the transfer belt motor, defective control circuit
			Check & Remedy	Check the transfer belt motor operation with SIM25-1. Check the process control sensor operation with SIM44-2. Check the harness and the connector between the PCU PWB and the transfer belt motor.

Main code	Sub code	Title	**Shift motor trouble**	
L4	**11**	Display	Lamp/Message	
		Phenomenon	Detail	When initializing the shift motor, the change in the shift motor home position sensor characteristics is not detected within the specified time.
			Section	Paper feed
		Case 1	Cause	Shift motor trouble, disconnection of the harness between the PCU PWB and the shift motor, control circuit trouble
			Check & Remedy	Use SIM 6-1 to check the shift motor operation. Use SIM 30-1 to check the shift motor home position sensor. Check the harness and the connector between the PCU PWB and the shift motor.

Main code	Sub code	Title	**Full wave signal not provided**	
L8	**01**	Display	Lamp/Message	
		Phenomenon	Detail	The full wave signal is not provided.
			Section	—
		Case 1	Cause	PCU PWB trouble
			Check & Remedy	Replace the PCU PWB.
		Case 2	Cause	Power supply unit trouble
			Check & Remedy	Replace the power supply unit.
		Case 3	Cause	Harness trouble
			Check & Remedy	Check connection of the harness and the connector.

Main code	Sub code	Title	**Full wave signal width abnormality**	
L8	**02**	Display	Lamp/Message	
		Phenomenon	Detail	An abnormality of the full wave signal frequency is detected. (The detected frequency is 65kHz or above, or 45kHz or below.)
			Section	—
		Case 1	Cause	PCU PWB trouble
			Check & Remedy	Replace the PCU PWB.
		Case 2	Cause	Power supply unit trouble
			Check & Remedy	Replace the power supply unit.
		Case 3	Cause	Harness trouble
			Check & Remedy	Check connection of the harness and the connector.

Main code	Sub code	Title	**Main power switch abnormality detection**	
L8	**04**	Display	Lamp/Message	
		Phenomenon	Detail	Though the PCU program is operating (the power is supplied), the main power switch OFF is detected.
			Section	—
		Case 1	Cause	Main power switch trouble
			Check & Remedy	Replace the main power switch.
		Case 2	Cause	Power supply unit trouble
			Check & Remedy	Replace the power supply unit.
		Case 3	Cause	Harness trouble
			Check & Remedy	Check connection of the harness and the connector.

Main code	Sub code	Title	**RIC copy inhibit signal reception**	
PF	**00**	Display	Lamp/Message	
		Phenomenon	Detail	The copy inhibit signal from RIC (host) is received.
			Section	—
		Case 1	Cause	Depends on a judgment by the host.
			Check & Remedy	Make notification to the host. Use SIM 27-1 to ignore.

Main code	Sub code	Title	**ICU-OPE communication trouble (ICU/OPE detection)**	
U0	**00**	Display	Lamp/Message	
		Phenomenon	Detail	Communication establishment error, framing/parity/protocol error
			Section	—
		Case 1	Cause	Disconnection of the operation panel communication connector of the ICU/MFP PWB, harness trouble between the ICU PWB and the MFP PWB.
			Check & Remedy	Check the connector and the harness between the ICU PWB and the MFP PWB.
		Case 2	Cause	ICU/MFP PWB trouble
			Check & Remedy	Check grounding of the machine. Replace the ICU PWB or the MFP PWB.

Main code	Sub code	Title	**RTC read trouble**	
U1	**02**	Display	Lamp/Message	
		Phenomenon	Detail	Abnormal value is read from the RTC on the ICU PWB.
			Section	—
		Case 1	Cause	RTC circuit abnormality
			Check & Remedy	Set the time again with the key operation, and check that time advances properly. Check the RTC circuit.

Main code	Sub code	Title	**EEPROM read/write error (ICU detection)**	
U2	**00**	Display	Lamp/Message	
		Phenomenon	Detail	EEPROM version error EEPROM write error
			Section	—
		Case 1	Cause	EEPROM trouble. EEPROM is not initialized.
			Check & Remedy	1. Check that the EEPROM is properly set. 2. Use SIM 16 to cancel the error.
		Case 2	Cause	ICU PWB EEPROM access circuit trouble
			Check & Remedy	1. To prevent against deletion of the counter data and the adjustment data, record them with the simulation. (When a printer option is installed, use SIM 22-1 to record the counter data and the adjustment data.) 2. Replace the ICU PWB. 3. Use SIM 16 to cancel the error.

Main code	Sub code	Title	**EEPROM check sum error (ICU detection)**	
U2	**11**	Display	Lamp/Message	
		Phenomenon	Detail	EEPROM (ICU) check sum error
			Section	—
		Case 1	Cause	EEPROM trouble
			Check & Remedy	1. Check that the EEPROM is properly set. 2. Use SIM 16 to cancel the error.
		Case 2	Cause	Control circuit freeze by noises. ICU PWB EEPROM access circuit trouble.
			Check & Remedy	1. To prevent against deletion of the counter data and the adjustment data, record them with the simulation. (When a printer option is installed, use SIM 22-1 to record the counter data and the adjustment data.) 2. Replace the ICU PWB. 3. Use SIM 16 to cancel the error.

Main code	Sub code	Title	**Production No. data discrepancy**	
U2	**30**	Display	Lamp/Message	
		Phenomenon	Detail	The production No. recorded in the PCU differs from that recorded in the ICU.
			Section	—
		Case 1	Cause	EEPROM is not exchanged when replacing the PCU/ICU PWB.
			Check & Remedy	Check that the EEPROM is properly installed. When replacement, check that the EEPROM before replacement is inserted to the board after replacement.

Main code	Sub code	Title	**EEPROM read/write error (SCN)**	
U2	**80**	Display	Lamp/Message	
		Phenomenon	Detail	EEPROM version error EEPROM write error
			Section	—
		Case 1	Cause	EEPROM trouble, Insertion of EEPROM which is not initialized or defective.
			Check & Remedy	1. Check that the EEPROM is properly inserted. 2. Use SIM 16 to cancel the error.
		Case 2	Cause	SCN PWB EEPROM access circuit trouble
			Check & Remedy	1. To prevent against deletion of the counter data and the adjustment data, record them with the simulation. (When a printer option is installed, use SIM 22-1 to record the counter data and the adjustment data.) 2. Replace the SCN PWB. 3. Use SIM 16 to cancel the error.

Main code	Sub code	Title	**Adjustment value check sum error (SCN)**	
U2	**81**	Display	Lamp/Message	
		Phenomenon	Detail	EEPROM (SCN) check sum error
			Section	—
		Case 1	Cause	EEPROM trouble
			Check & Remedy	1. Check that the EEPROM is properly inserted. 2. Use SIM 16 to cancel the error.
		Case 2	Cause	SCN PWB EEPROM access circuit trouble
			Check & Remedy	1. To prevent against deletion of the counter data and the adjustment data, record them with the simulation. (When a printer option is installed, use SIM 22-1 to record the counter data and the adjustment data.) 2. Replace the SCN PWB. 3. Use SIM 16 to cancel the error.

Main code	Sub code	Title	**EEPROM read/write error (PCU)**	
U2	**90**	Display	Lamp/Message	
		Phenomenon	Detail	EEPROM version error EEPROM write error
			Section	—
		Case 1	Cause	EEPROM trouble, Insertion of EEPROM which is not initialized or defective.
			Check & Remedy	1. Check that the EEPROM is properly inserted. 2. Use SIM 16 to cancel the error.
		Case 2	Cause	PCU PWB EEPROM access circuit trouble
			Check & Remedy	1. To prevent against deletion of the counter data and the adjustment data, record them with the simulation. (When a printer option is installed, use SIM 22-1 to record the counter data and the adjustment data.) 2. Replace the PCU PWB. 3. Use SIM 16 to cancel the error.

Main code	Sub code	Title	**Adjustment value check sum error (PCU)**	
U2	**91**	Display	Lamp/Message	
		Phenomenon	Detail	EEPROM (PCU) check sum error
			Section	—
		Case 1	Cause	EEPROM trouble
			Check & Remedy	1. Check that the EEPROM is properly inserted. 2. Use SIM 16 to cancel the error.
		Case 2	Cause	Control circuit freeze caused by noises, PCU PWB EEPROM access circuit trouble
			Check & Remedy	1. To prevent against deletion of the counter data and the adjustment data, record them with the simulation. (When a printer option is installed, use SIM 22-1 to record the counter data and the adjustment data.) 2. Replace the PCU PWB. 3. Use SIM 16 to cancel the error.

Main code	Sub code	Title	**ADU alignment plate operation abnormality**	
U4	**02**	Display	Lamp/Message	
		Phenomenon	Detail	The alignment plate does not move from the home position within 1sec when it must move. Return to the home position is not detected for 5sec or more.
			Section	ADU
		Case 1	Cause	Home position sensor trouble
			Check & Remedy	Use SIM 9-2 to detect the home position sensor.
		Case 2	Cause	Alignment plate shift motor trouble
			Check & Remedy	Use SIM 9-4 to check the alignment plate operation.
		Case 3	Cause	Disconnection of the harness between the ADU control PWB and the motor sensor.
			Check & Remedy	Check connection of the harness between the ADU control PWB and the motor sensor.
		Case 4	Cause	Alignment plate operation belt, gear breakage or improper adjustment
			Check & Remedy	Remove the ADU, and check for breakage of the gear and the belt.

Main code	Sub code	Title	**ADF communication trouble**	
U5	**00**	Display	Lamp/Message	
		Phenomenon	Detail	Communication test error when turning on the power or after canceling the exclusive simulation. Communication error with the ADF
			Section	ADF
		Case 1	Cause	Improper connection or disconnection of the connector and the harness
			Check & Remedy	Check the connector and the harness in the communication line. Turn OFF/ON the power to cancel the error.
		Case 2	Cause	ADF control PWB trouble, control PWB (MFP) trouble, malfunction caused by noises
			Check & Remedy	Check the ADF control PWB and the control PWB (MFP). Turn OFF/ON the power to cancel the error.

Main code	Sub code	Title	**ADF resist sensor trouble**	
U5	**01**	Display	Lamp/Message	
		Phenomenon	Detail	ADF resist sensor detection trouble
			Section	ADF
		Case 1	Cause	Sensor trouble
			Check & Remedy	Use SIM 2-2 to check the resist sensor detection.
		Case 2	Cause	Disconnection of the harness in the ADF.
			Check & Remedy	Check the harness in the ADF.
		Case 3	Cause	ADF control PWB trouble
			Check & Remedy	Replace the ADF control PWB.

Main code	Sub code	Title	**ADF repulsion sensor trouble**	
U5	**02**	Display	Lamp/Message	
		Phenomenon	Detail	ADF paper feed/reverse sensor detection trouble
			Section	ADF
		Case 1	Cause	Sensor trouble
			Check & Remedy	Use SIM 2-2 to check the resist sensor detection.
		Case 2	Cause	Disconnection of the harness in the ADF.
			Check & Remedy	Check the harness in the ADF.
		Case 3	Cause	ADF control PWB trouble
			Check & Remedy	Replace the ADF control PWB.

Main code	Sub code	Title	**ADF timing sensor trouble**	
U5	**03**	Display	Lamp/Message	
		Phenomenon	Detail	ADF timing sensor detection trouble
			Section	ADF
		Case 1	Cause	Sensor trouble
			Check & Remedy	Use SIM 2-2 to check the resist sensor detection.
		Case 2	Cause	Disconnection of the harness in the ADF.
			Check & Remedy	Check the harness in the ADF.
		Case 3	Cause	ADF control PWB trouble
			Check & Remedy	Replace the ADF control PWB.

Main code	Sub code	Title	**Paper feed motor operation abnormality**	
U5	**11**	Display	Lamp/Message	
		Phenomenon	Detail	Paper feed motor operation abnormality
			Section	ADF
		Case 1	Cause	Motor lock, motor RPM abnormality, Over current to the motor, ADF control PWB trouble
			Check & Remedy	Use SIM 2-2/3/4 to check the paper feed motor operation.

Main code	Sub code	Title	**Desk communication trouble**	
U6	**00**	Display	Lamp/Message	
		Phenomenon	Detail	Desk communication error, communication test error when turning on the power or after canceling the exclusive simulation.
			Section	Desk
		Case 1	Cause	Improper connection or disconnection of the connector and the harness.
			Check & Remedy	Check the connector and the harness in the communication line. Turn OFF/ON the power to cancel the error.
		Case 2	Cause	Desk control PWB trouble, control PWB (PCU) trouble, malfunction caused by noises
			Check & Remedy	Turn OFF/ON the power to cancel the error.

Main code	Sub code	Title	**Desk cassette 1 lift-up trouble**	
U6	**01**	Display	Lamp/Message	
		Phenomenon	Detail	DLUD1 does not turn on within the specified time.
			Section	Desk
		Case 1	Cause	DLUD1 sensor trouble, paper feed unit harness disconnection
			Check & Remedy	Check DLUD1 and the harness and the connector.
		Case 2	Cause	Cassette 1 lift-up motor trouble, desk PWB, lift-up unit trouble
			Check & Remedy	Check the lift-up unit.

Main code	Sub code	Title	**Desk cassette 2 lift-up trouble**	
U6	**02**	Display	Lamp/Message	
		Phenomenon	Detail	DLUD2 does not turn on within the specified time.
			Section	Desk
		Case 1	Cause	DLUD2 sensor trouble, paper feed unit harness disconnection
			Check & Remedy	Check DLUD2 and the harness and the connector.
		Case 2	Cause	Cassette 2 lift-up motor trouble, desk PWB, lift-up unit trouble
			Check & Remedy	Check the lift-up unit.

Main code	Sub code	Title	**Desk cassette 3 lift-up trouble**	
U6	**03**	Display	Lamp/Message	
		Phenomenon	Detail	DLUD3 does not turn on within the specified time.
			Section	Desk
		Case 1	Cause	DLUD3 sensor trouble, paper feed unit harness disconnection
			Check & Remedy	Check DLUD3 and the harness and the connector.
		Case 2	Cause	Cassette 3 lift-up motor trouble, desk PWB, lift-up unit trouble
			Check & Remedy	Check the lift-up unit.

Main code	Sub code	Title	**Desk transport motor trouble**	
U6	**10**	Display	Lamp/Message	
		Phenomenon	Detail	Desk transport motor operation trouble
			Section	—
		Case 1	Cause	Motor lock, motor RPM abnormality, Over current to the motor, console finisher control PWB trouble
			Check & Remedy	Use SIM 3-3 to check the staple motor operation.

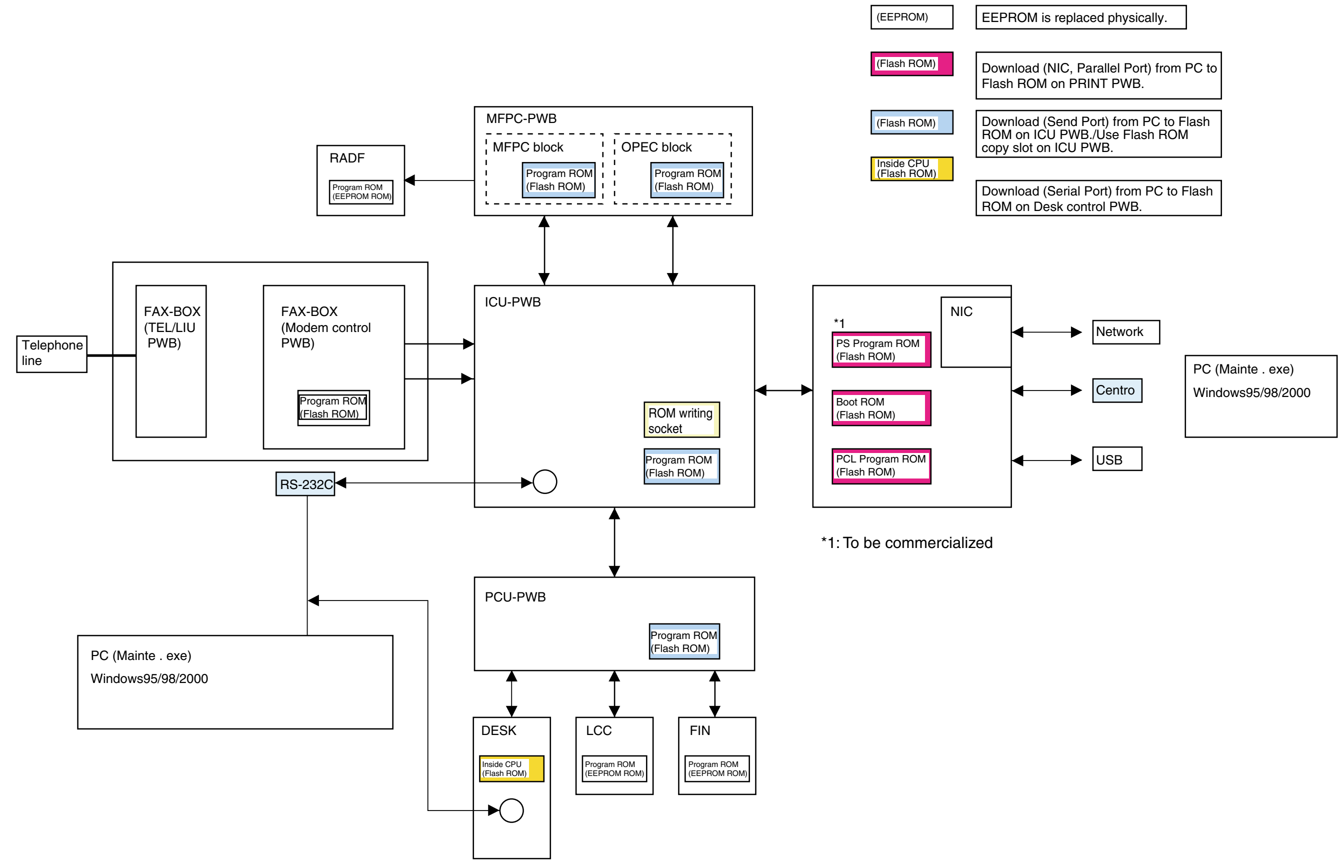
Main code	Sub code	Title	**RIC communication trouble**	
U7	**00**	Display	Lamp/Message	
		Phenomenon	Detail	RIC communication error, communication test error when turning on the power or after canceling the exclusive simulation.
			Section	—
		Case 1	Cause	Improper connection or disconnection of the connector and the harness
			Check & Remedy	Check the connector and the harness in the communication line. Turn OFF/ON the power to cancel the error.
		Case 2	Cause	RIC control PWB trouble, control PWB (PCU) trouble, malfunction caused by noises
			Check & Remedy	Turn OFF/ON the power to cancel the error.

[12] ROM VERSION UP

1. Outline

A. Target ROM for version up

The following ROM's are used in the machine, and their versions are revised.


(EEPROM)
EEPROM is replaced physically.
(Flash ROM)
Download (NIC, Parallel Port) from PC to Flash ROM on PRINT PWB.
(Flash ROM)
Download (Send Port) from PC to Flash ROM on ICU PWB./Use Flash ROM copy slot on ICU PWB.
Inside CPU (Flash ROM)
Download (Serial Port) from PC to Flash ROM on Desk control PWB.
RADF
Program ROM (EEPROM ROM)
MFPC-PWB
MFPC block
Program ROM (Flash ROM)
OPEC block
Program ROM (Flash ROM)
Telephone line
FAX-BOX (TEL/LIU PWB)
FAX-BOX (Modem control PWB)
Program ROM (Flash ROM)
ICU-PWB
ROM writing socket
Program ROM (Flash ROM)
RS-232C
*1
PS Program ROM (Flash ROM)
Boot ROM (Flash ROM)
PCL Program ROM (Flash ROM)
NIC
Network
Centro
USB
PC (Mainte . exe)
Windows95/98/2000
*1: To be commercialized
PCU-PWB
Program ROM (Flash ROM)
PC (Mainte . exe)
Windows95/98/2000
DESK
Inside CPU (Flash ROM)
LCC
Program ROM (EEPROM ROM)
FIN
Program ROM (EEPROM ROM)

	ROM kind				File name/Content	
Section	Name	Type	Capacity	Replacement	Program (with Copy ROM to ROM program)	Program (without Copy ROM to ROM program)
PCU PWB	PCU ROM	Flash ROM	8Mbit	Replaceable	WPcuXXX_src.pgm	WPcuXXX_d.pgm
ICU PWB	ICU ROM	Flash ROM	32Mbit x 2	Replaceable	WIcuXXX_src.pgm	WIcuXXX_d.pgm
MFP PWB	Operation control ROM	Flash ROM	16Mbit x 2	Replaceable	WOpeXXX_src.pgm	WOpeXXX_d.pgm
	Scanner control ROM	Flash ROM	16Mbit	Replaceable	WScnXXX_src.pgm	WScnXXX_d.pgm
DESK CONTROL PWB	Desk control ROM	Flash ROM included in CPU		Fixed	WDskXXX_src.pgm	WDskXXX_d.pgm
RADF CONTROL PWB	RADF control ROM	EPROM		Replaceable		
LCC CONTROL PWB	LCC control ROM	EPROM		Replaceable		
FAX CONTROL PWB	FAX control ROM	Flash ROM	8Mbit x 2	Replaceable		
FINISHER CONTROL PWB	Finisher control ROM	EPROM		Replaceable		

B. When version up of ROM is required

In the following cases, version up of ROM is required.

1) In order to improve the performance.
2) When installing a new spare part ROM to the machine for repair.
3) When installing a new repair spare parts PWB unit which has a ROM in it to the machine.
4) When the program in a ROM has some troubles and must be corrected.

C. Flash ROM version up method

(In the case of PCU ROM, ICU ROM, Operation control ROM, Scanner control ROM, FAX control ROM)

There are following two methods of Flash Rom version up.

1) By connecting a computer with the ICU PWB, the program data of Flash ROM is written from the computer to the Flash ROM on the ICU MAIN PWB.

   This method has the following two variations.

   a) All data in the PWB programs and the Flash ROM copy (ROM-ROM) program are written: (Making of the source ROM)

      In this method, the Flash ROM on the writing side needs capacity of 32Mbit x 2

      (In order to make a source ROM, the capacity of the Flash ROM must be as shown above.)

   b) Only each PWB program is written.

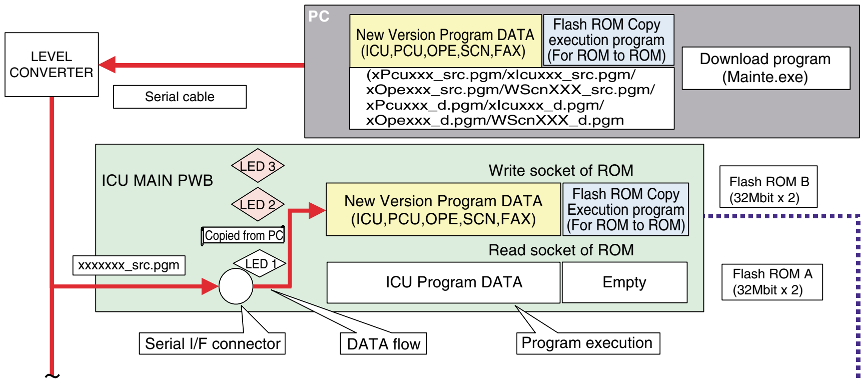
2) Two Flash ROM sockets on the ICU MAIN PWB are used to copy the program in the source ROM to another Flash ROM. (It normally takes 30 to 60 sec.)

   In this method, the Flash ROM (source ROM) made by the method of using a computer and writing the program to the Flash ROM is required.

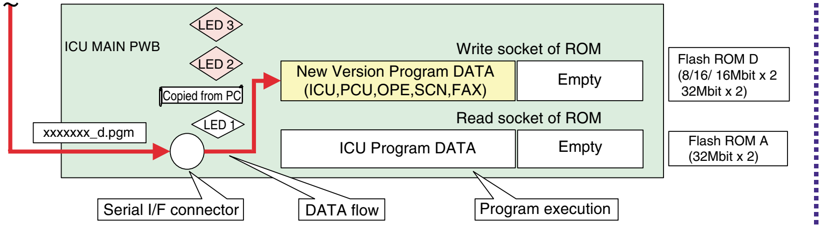
(Note)

To make version up of several Flash ROM's of several machines, it is the most effective to make a source ROM by the method of 1) -a) and copy the data to several Flash ROM's by the method of 2).

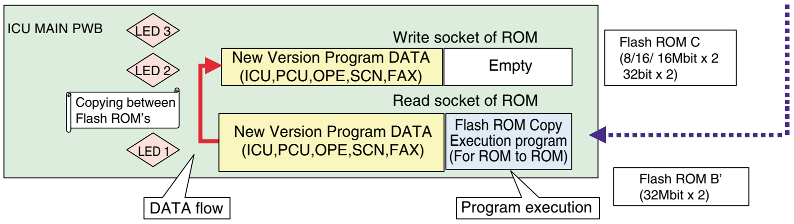
(1)-a Method of writing the program data from a PC to the ICU MAIN PWB Flash ROM (Making of source ROM)
The program for each PWB and the Flash ROM copy program are copied into the Flash ROM on the Write side socket.


PC
New Version Program DATA (ICU,PCU,OPE,SCN,FAX)
Flash ROM Copy execution program (For ROM to ROM)
(xPcuxxx_src.pgm/xIcuxxx_src.pgm/
xOpexxx_src.pgm/WScnXXX_src.pgm/
xPcuxxx_d.pgm/xIcuxxx_d.pgm/
xOpexxx_d.pgm/WScnXXX_d.pgm
Download program (Mainte.exe)
LEVEL CONVERTER
Serial cable
ICU MAIN PWB
LED 3
LED 2
Copied from PC
LED 1
xxxxxxx_src.pgm
Write socket of ROM
New Version Program DATA (ICU,PCU,OPE,SCN,FAX)
Flash ROM Copy Execution program (For ROM to ROM)
Read socket of ROM
ICU Program DATA
Empty
Flash ROM B (32Mbit x 2)
Flash ROM A (32Mbit x 2)
Serial I/F connector
DATA flow
Program execution

(1)-b Method of writing the program data from a PC to the ICU MAIN PWB Flash ROM
The program for each PWB is copied to the Flash ROM on the Write socket.


ICU MAIN PWB
LED 3
LED 2
Copied from PC
LED 1
xxxxxxx_d.pgm
Write socket of ROM
New Version Program DATA (ICU,PCU,OPE,SCN,FAX)
Empty
Read socket of ROM
ICU Program DATA
Empty
Flash ROM D (8/16/ 16Mbit x 2 32Mbit x 2)
Flash ROM A (32Mbit x 2)
Serial I/F connector
DATA flow
Program execution

(2) Method of copying with two Flash ROM sockets on the ICU MAIN PWB
The program for each PWB in the Flash ROM (source ROM) on the Read socket is copied to the Flash ROM (target ROM) on the Write socket.


ICU MAIN PWB
LED 3
LED 2
Copying between Flash ROM's
LED 1
Write socket of ROM
New Version Program DATA (ICU,PCU,OPE,SCN,FAX)
Empty
Read socket of ROM
New Version Program DATA (ICU,PCU,OPE,SCN,FAX)
Flash ROM Copy Execution program (For ROM to ROM)
Flash ROM C (8/16/ 16Mbit x 2 32bit x 2)
Flash ROM B' (32Mbit x 2)
DATA flow
Program execution

Relationship between copy (write) method and copy contents

(1)-a Method of writing the program data from a PC to the ICU MAIN PWB Flash ROM (Making of source ROM)
The program for each PWB and the Flash ROM copy program are copied into the Flash ROM on the Write side socket.

PC side			Write side Flash Rom (Flash ROM B)				Note
Content		File name	Name	Capacity	Copied content		
Program for PCU Flash ROM	Program for Flash ROM copy (ROM to ROM)	xPcuxxx_src.pgm	For PCU Flash ROM	32bit x 2	Program for PCU Flash ROM	Program for Flash ROM copy (ROM to ROM)	The ICU Flash ROM with the copy (write) program in it must be connected to the Read side Flash ROM socket. When shipping, from the factory, the copy (write) program is provided for use. By this method with two Flash ROM sockets on the ICU PWB, the Flash ROM for copying is made.
Program for ICU Flash ROM	Program for Flash ROM copy (ROM to ROM)	xlcuxxx_src.pgm	For ICU Flash ROM	32bit x 2	Program for ICU Flash ROM	Program for Flash ROM copy (ROM to ROM)	
Program for operation control Flash ROM	Program for Flash ROM copy (ROM to ROM)	xOpexxx_src.pgm	For operation control Flash ROM	32bit x 2	Program for operation control Flash ROM	Program for Flash ROM copy (ROM to ROM)	
Program for scanner control Flash ROM	Program for Flash ROM copy (ROM to ROM)	WScnXXX_src.pgm	For scanner control Flash ROM	32Mbit x 2	Program for scanner control Flash ROM	Program for Flash ROM copy (ROM to ROM)	
Program for FAX control Flash ROM	Program for Flash ROM copy (ROM to ROM)		For FAX control Flash ROM	32Mbit x 2	Program for FAX control Flash ROM	Program for Flash ROM copy (ROM to ROM)	

(1)-b Method of writing the program data from PC to the Flash ROM on the ICU PWB
The program for each PWB is copied to the Flash ROM on the Write socket.

PC side			Write side Flash Rom (Flash ROM D)				Note
Content		File name	Name	Capacity	Copied content		
Program for PCU PWB Flash ROM		xpcuxxx_d.pgm	For PCU Flash ROM	8Mbit	Program for PCU Flash ROM		The ICU MAIN PWB Flash ROM with the copy (write) program in it must be connected to the Read side Flash ROM socket. When shipping, from the factory, the copy (write) program is provided for use.
Program for ICU PWB Flash ROM		xIcuxxx_d.pgm	For ICU Flash ROM	32Mbit x 2	Program for ICU Flash ROM		
Program for operation control Flash ROM		xOpexxx_d.pgm	For operation control Flash ROM	16Mbit x 2	Program for operation control Flash ROM		
Program for scanner control Flash ROM		WScnXXX_d.pgm	For scanner control Flash ROM	16Mbit	Program for scanner control Flash ROM		
Program for FAX control Flash ROM			For FAX control Flash ROM	8Mbit x 2	Program for FAX control Flash ROM		

(2) Method of copying with two Flash ROM sockets on the ICU MAIN PWB
The program for each PWB in the Flash ROM (Source ROM) on the Read side Flash ROM socket is copied to a Flash ROM on the Write side socket.

Read side Flash ROM (ROM B) (*1)			Write side Flash ROM (Flash ROM C)				Note
Capacity	Content		Name	Capacity	Copied content		
32Mbit x 2	Program for PCU Flash ROM	Program for Flash ROM Copy (ROM to ROM)	For PCU Flash ROM	8Mbit	Program for PCU Flash ROM		The Flash ROM on the Read side is the source ROM for PCU, which was made by writing the program data from PC to the Flash ROM.
32Mbit x 2	Program for ICU Flash ROM	Program for Flash ROM copy (ROM to ROM)	For ICU Flash ROM	32Mbit x 2	Program for ICU Flash ROM		The Flash ROM on the Read side is the source ROM for ICU, which was made by writing the program data from PC to the Flash ROM.
32Mbit x 2	Program for operation control Flash ROM	Program for Flash ROM copy (ROM to ROM)	For operation control Flash ROM	16Mbit x 2	Program for operation control Flash ROM		The Flash ROM on the Read side is the source ROM for operation control PWB, which was made by writing the program data from PC to the Flash ROM.
32Mbit x 2	Program for scanner control Flash ROM	Program for Flash ROM copy (ROM to ROM)	Program for scanner control Flash ROM	16Mbit	Program for scanner control Flash ROM		
32Mbit x 2	Program for FAX control Flash ROM		Program for FAX control Flash ROM	8Mbit x 2	Program for FAX control Flash ROM		

*1: This Flash ROM was made by writing the program data from PC to the ICU MAIN PWB Flash ROM.

NOTE: Besides this method of Flash ROM version up, there is another method by use of a machine of the AR-350/450 series.
This method, however, allows the version up work in a shorter time.
For details, refer to Technical Report ARE-352 (ARJ-390).

(Desk control ROM)

The desk unit control program is installed in the Flash ROM in the CPU of the desk unit control PWB.

Therefore, this Flash ROM cannot be replaced physically.

The PC is connected with the desk unit control PWB, and the Flash Rom program is written from the PC to the Flash Rom in the CPU.

PC side		Write side (Flash ROM in the CPU on the Desk unit control PWB)
Content	File name	Copied content
Program for Desk control PWB Flash ROM	WDskxxx_d.pgm	Program for Desk control PWB Flash ROM

2. Precautions

A. Relationship between each ROM and version up

When making version up of ROM, check the combination with the version of ROM installed to the other PWB including options.

In some combination of ROM versions, the machine may not operate normally.

If all the ROM's are of the latest versions, there is no problem.

3. Necessary items for version up (copy) of Flash ROM

Necessary items for Flash ROM version up

(In the case of PCU ROM, ICU ROM, Operation control ROM, Scanner control ROM, FAX control ROM)

(1)-a Method of writing the program data from a PC to the Flash ROM on the ICU MAIN PWB. (Making of the source ROM)
The program for each PWB and the Flash ROM copy program are copied to a Flash ROM on the Write socket.

Necessary item	Note
Level converter	UKOG-0002QSZZ (with serial cable)/UKOG-0003QSZZ (without serial cable)
PC	Windows 95/98/2000 environment
Download program file	Software to write the program data from a PC to the Flash ROM (Mainte_xxxx.exe)
(PCU MAIN PWB Flash ROM program/Flash ROM copy (ROM to ROM) program) file	xPcuxxx_src.pgm
(ICU MAIN PWB Flash ROM program/Flash ROM copy (ROM to ROM) program) file	xIcuxxx_src.pgm
(Operation control PWB Flash ROM program/Flash ROM copy (ROM to ROM) program) file	xOpexxx_src.pgm
Program for scanner control Flash ROM/Program for Flash ROM copy (ROM to ROM)	WScnXXX_src.pgm
Program for FAX control Flash ROM/Program for Flash Rom copy (ROM to ROM)	
ICU MAIN PWB Flash ROM (including the program for MAIN ICU PWB and the Flash ROM copy (PC - ROM) program) (32Mbit x 2) (Flash ROM A)	Flash ROM which has the function of writing the program data from PC to the Flash ROM on the ICU
Writing Flash ROM (32Mbit x 2) (Flash ROM B)	Flash ROM to make a source ROM

(1)-b Method of writing the program data from a PC to the ICU MAIN PWB Flash ROM.
The program for each PWB is copied to the Flash ROM on the Write side socket.

Necessary item	Note
Level converter	UKOG-0002QSZZ (with serial cable)/UKOG-0003QSZZ (without serial cable)
PC	Windows 95/98/2000 environment
Download program file	Software for writing the program data from a PC to the Flash ROM (Mainte.exe)
PCU Flash ROM program file	xpcuxxx_d.pgm
ICU Flash ROM program file	xIcuxxx_d.pgm
Operation control PWB Flash ROM program file	xOpexxx_d.pgm
Scanner control Flash ROM program	WScnXXX_d.pgm
FAX control Flash ROM program	
Flash Rom for ICU (including the program for Main ICU PWB and the Flash ROM copy (PC - ROM) program (32Mbit x 2) (Flash ROM A)	Flash ROM (ICU PWB) having the function to write program data from PC to the Flash ROM on the ICU PWB.
Writing Flash ROM (16Mbit x 2/ 16Mbit/8Mbit/32Mbit x 2/8Mbit x 2)	The type (capacity) of the Flash ROM depends on which Flash ROM is made among the CPU PWB, the ICU PWB, and the operation PWB.

(2) Method of copying with two Flash ROM sockets on the ICU MAIN PWB
The program for each PWB in the Flash ROM (source ROM) on the Read side Flash ROM socket is copied to the Flash ROM on the Write side socket.

Necessary item	Note
Flash Rom including the ICU program and the Flash ROM copy (ROM to ROM) program (Flash ROM B) (32Mbit x 2)	Flash ROM made by writing the program data from PC to the Flash ROM (32Mbit x 2)
Flash Rom including the PCU program and the Flash ROM copy (ROM to ROM) program (Flash ROM B) (32Mbit x 2)	Flash ROM made by writing the program data from PC to the Flash ROM (32Mbit x 2)
Flash Rom including the program for the operation control PWB and the Flash ROM copy (ROM to ROM) program (Flash ROM B') (32Mbit x 2)	Flash ROM made by writing the program data from PC to the Flash ROM (32Mbit x 2)
Program for scanner control Flash ROM/Flash ROM copy (ROM to ROM) program	Flash ROM made by writing the program data from PC to the Flash ROM (32Mbit x 2)
Program for FAX control Flash ROM/Flash ROM copy (ROM to ROM) program	Flash ROM made by writing the program data from PC to the Flash ROM (32Mbit x 2)
Writing Flash ROM/16Mbit x 2/ 16Mbit/8iMbit/32Mbit x 2) (Flash ROM C)	The type (capacity) of Flash ROM is determined depending on the kind of Flash ROM (in the PCU PWB, in the ICU PWB, or in the operation control PWB).

(In the case of Desk control ROM)

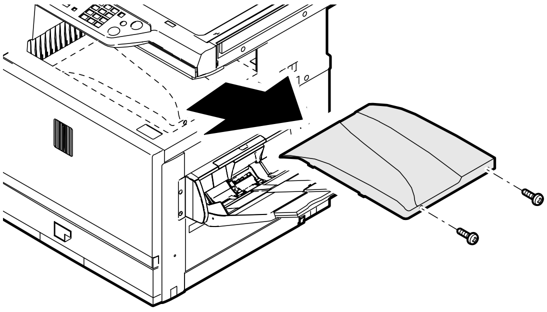
Necessary item	Note
Level converter	UKOG-0002QSZZ (with serial cable)/ UKOG-0003QSZZ (without serial cable)
PC	Windows 95/98/2000 environment
Download program file	Software to write the program data from PC to the Flash ROM. (Mainte_xxxx.exe)
Desk control Flash ROM program file	WDskxxx_d.pgm

4. Flash ROM version up procedure

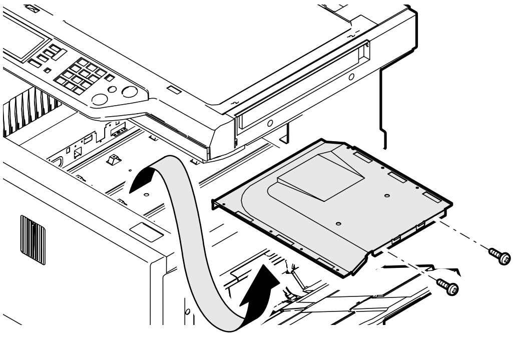
(In the case of PCU ROM, ICU ROM, Operation control ROM, Scanner control ROM, FAX control ROM)

(Preliminary procedure)

1) Remove the machine paper tray cabinet. (2 screws)

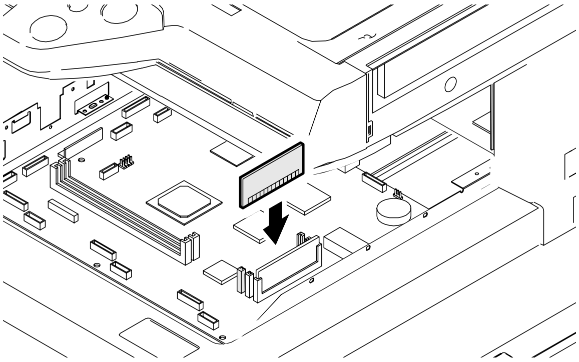


2) Remove the shield plate. (2 screws)

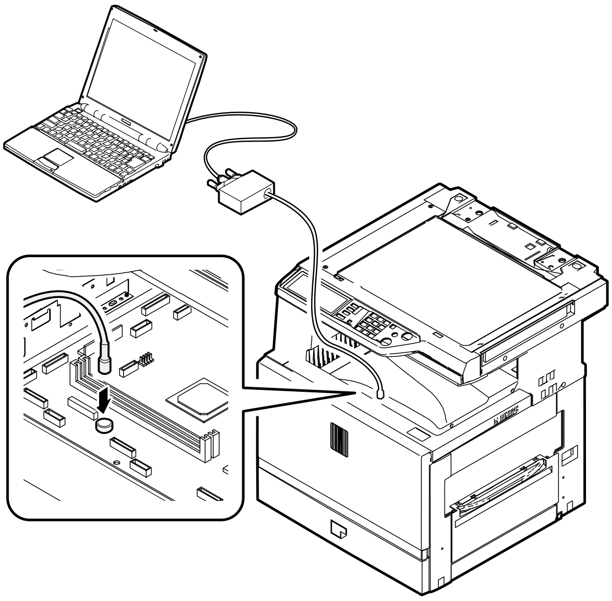


A. By using a computer and the ICU PWB, the program data of Flash ROM is written from the computer to the Flash ROM of the ICU PWB.

1) Check that the power of the machine is turned off. Install the Flash ROM which is to be upgraded (copied) to the write socket of the ICU PWB.



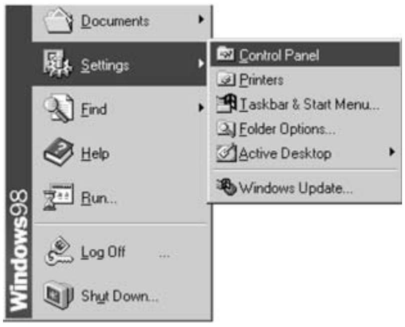
2) Connect the computer with the level converter.



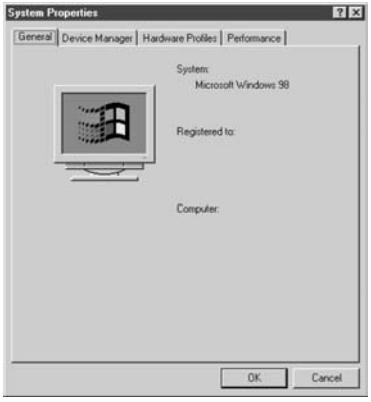
3) Connect the serial I/F connector on the ICU MAIN PWB with the level converter.
4) Turn on the computer to start Windows.
5) Turn on the machine.
6) Set the communication speed on the computer side.

In the case of Windows 95/98:

(6-1) Open the "Control panel."


Documents
Settings
Find
Help
Run...
Log Off ...
Shut Down...
Windows98
Control Panel
Printers
Taskbar & Start Menu...
Folder Options...
Active Desktop
Windows Update...

(6-2) Open the "System."

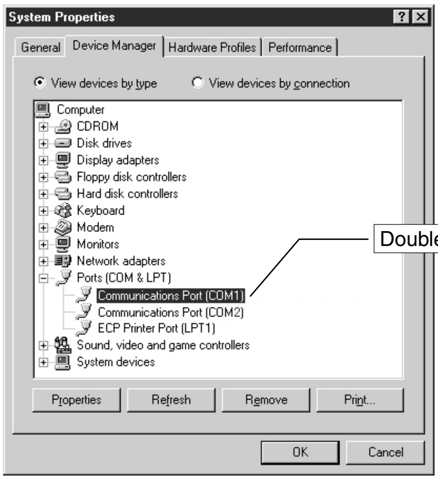

System Properties
General
Device Manager
Hardware Profiles
Performance
OK
Cancel

System:
Microsoft Windows 98

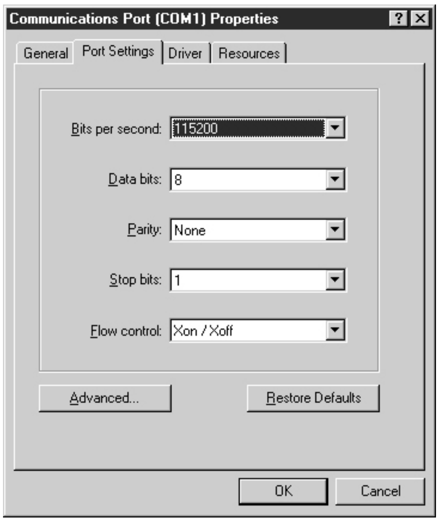
Registered to:

Computer:

(6-3) Click the "Device manager." Click the "Port (COM/LPT)" and double-click the "Communication port (COM*)" to be used.


System Properties
General
Device Manager
Hardware Profiles
Performance
View devices by type
View devices by connection
Computer
CDROM
Disk drives
Display adapters
Floppy disk controllers
Hard disk controllers
Keyboard
Modem
Monitors
Network adapters
Ports (COM & LPT)
Communications Port (COM1)
Communications Port (COM2)
ECP Printer Port (LPT1)
Sound, video and game controllers
System devices
Properties
Refresh
Remove
Print...
OK
Cancel
Double-click

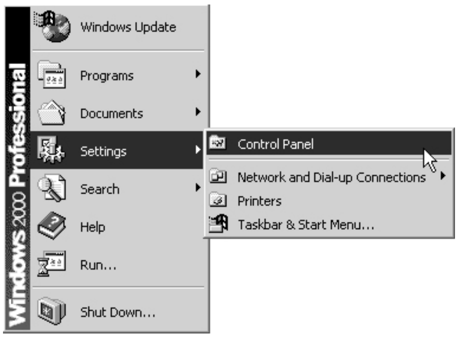
(6-4) Open the "Port setup" tab, and enter "115200" in the column of bit/sec.
If the above communication speed cannot be set, select and set one of the following speeds.
9600/19200/38600/57600


Communications Port (COM1) Properties
General
Port Settings
Driver
Resources
Advanced...
Restore Defaults
OK
Cancel

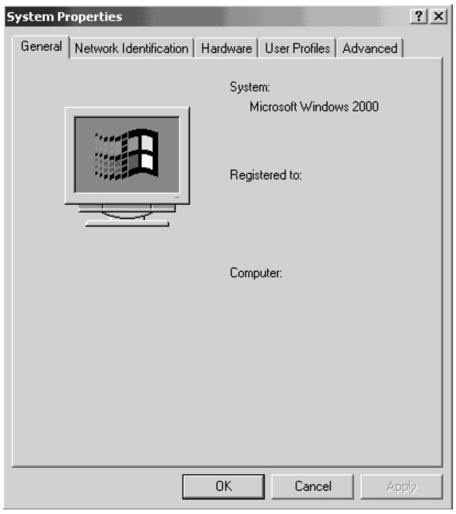
Bits per second: 115200
Data bits: 8
Parity: None
Stop bits: 1
Flow control: Xon / Xoff

In the case of Windows 2000:

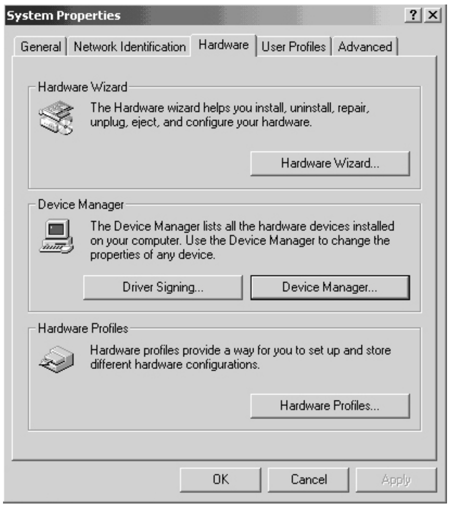
(6-1) Open the "Control panel."


Windows 2000 Professional
Windows Update
Programs
Documents
Settings
Search
Help
Run...
Shut Down...
Control Panel
Network and Dial-up Connections
Printers
Taskbar & Start Menu...

(6-2) Open the "System."


System Properties
General
Network Identification
Hardware
User Profiles
Advanced
System:
Microsoft Windows 2000
Registered to:
Computer:
OK
Cancel
Apply

(6-3) Select the "Device manager (D)" on the hardware menu.

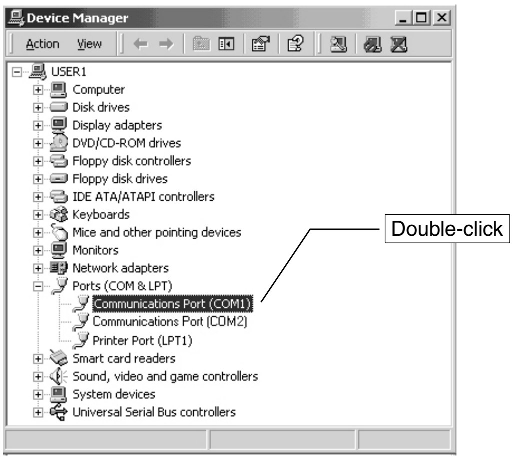

System Properties
General
Network Identification
Hardware
User Profiles
Advanced
Hardware Wizard
Hardware Wizard...
Device Manager
Driver Signing...
Device Manager...
Hardware Profiles
Hardware Profiles...
OK
Cancel
Apply

Hardware Wizard: The Hardware wizard helps you install, uninstall, repair, unplug, eject, and configure your hardware.

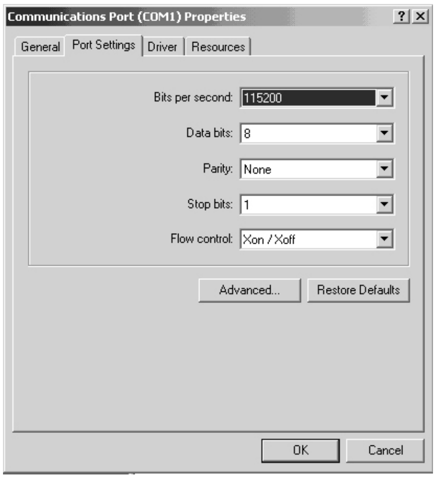
Device Manager: The Device Manager lists all the hardware devices installed on your computer. Use the Device Manager to change the properties of any device.

Hardware Profiles: Hardware profiles provide a way for you to set up and store different hardware configurations.

(6-4) Click the "Port (COM/LPT)" and douche-click the "Communication port (COM*)" to be used.


Device Manager
Action
View
USER1
Computer
Disk drives
Display adapters
DVD/CD-ROM drives
Floppy disk controllers
Floppy disk drives
IDE ATA/ATAPI controllers
Keyboards
Mice and other pointing devices
Monitors
Network adapters
Ports (COM & LPT)
Communications Port (COM1)
Communications Port (COM2)
Printer Port (LPT1)
Smart card readers
Sound, video and game controllers
System devices
Universal Serial Bus controllers
Double-click

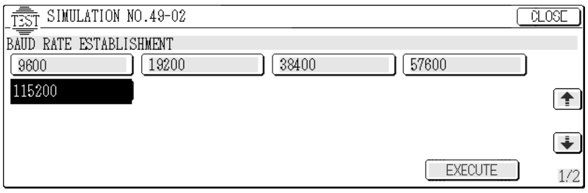
(6-5) Open the "Port setup" tab, and enter "115200" in the column of bit/sec.
If the above communication speed cannot be set, select and set one of the following speeds.
9600/19200/38600/57600


Communications Port (COM1) Properties
General
Port Settings
Driver
Resources
Advanced...
Restore Defaults
OK
Cancel

Bits per second: 115200
Data bits: 8
Parity: None
Stop bits: 1
Flow control: Xon / Xoff

7) Set the communication speed on the machine side. The set value of communication speed on the computer side must be the same as that on the machine side.

(7-1) Enter the simulation 49-2 mode.

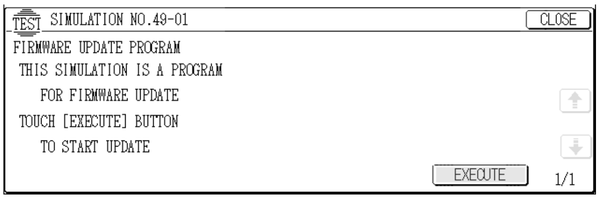

TEST
CLOSE
9600
19200
38400
57600
115200
EXECUTE
1/2

SIMULATION NO.49-02
BAUD RATE ESTABLISHMENT

(7-2) Press the key of the same communication speed as what is set in procedure 8). (The set communication speed is highlighted.)

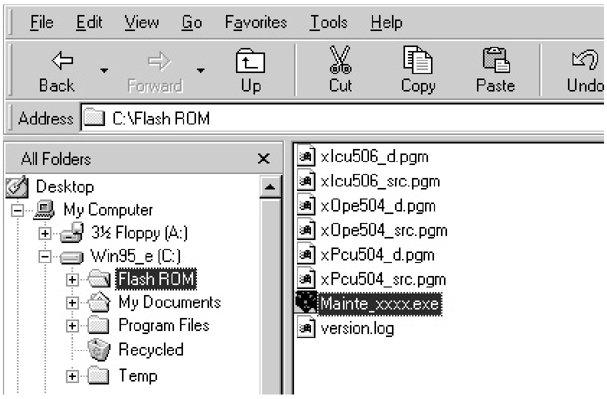
(7-3) Cancel the simulation 49-2.

8) Enter the simulation mode 49-1 mode, and press the ENTER key. (The machine enters the download (Flash ROM writing) mode.)


TEST
CLOSE
EXECUTE
1/1

SIMULATION NO.49-01
FIRMWARE UPDATE PROGRAM
THIS SIMULATION IS A PROGRAM
FOR FIRMWARE UPDATE
TOUCH [EXECUTE] BUTTON
TO START UPDATE

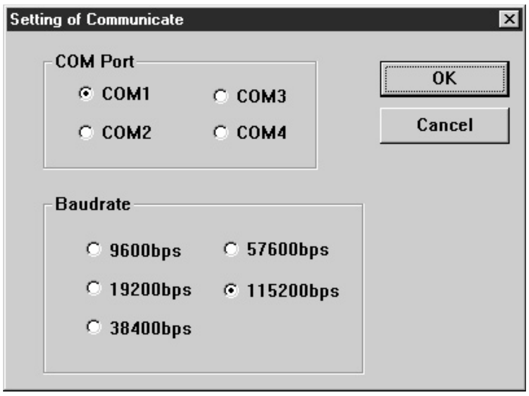
9) Start the download program on the computer side. (Double-click the Mainte.exe file.)


File
Edit
View
Go
Favorites
Tools
Help
Back
Forward
Up
Cut
Copy
Paste
Undo
All Folders
Desktop
My Computer
3½ Floppy (A:)
Win95_e (C:)
Flash ROM
My Documents
Program Files
Recycled
Temp

Address: C:\Flash ROM

xIcu506_d.pgm
xIcu506_src.pgm
xOpe504_d.pgm
xOpe504_src.pgm
xPcu504_d.pgm
xPcu504_src.pgm
Mainte_xxxx.exe
version.log

10) Select the communication speed on the option menu. (Set the communication speed same as what is set in procedures 6) and 7).)

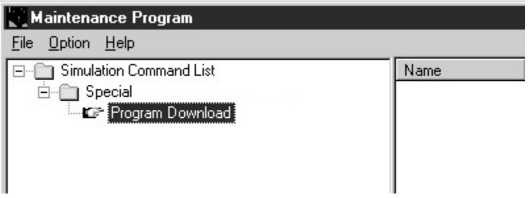

Setting of Communicate
OK
Cancel

COM Port
● COM1 ○ COM3
○ COM2 ○ COM4

Baudrate
○ 9600bps ○ 57600bps
○ 19200bps ● 115200bps
○ 38400bps

11) Select the data file to be copied (written) to the Flash ROM installed to the Write socket on the ICU MAIN PWB in procedure 1).

(11-1) Double-click the "Simulation Command List " holder.

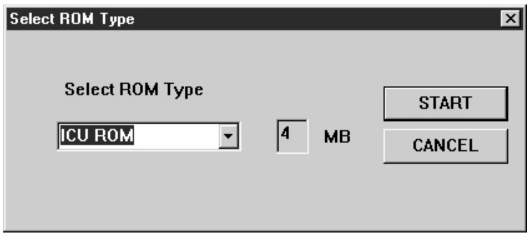

Maintenance Program
File
Option
Help
Simulation Command List
Special
Program Download
Name

(11-2) Double-click the "Special" holder.

(11-3) Double-click the "Program Download" file.

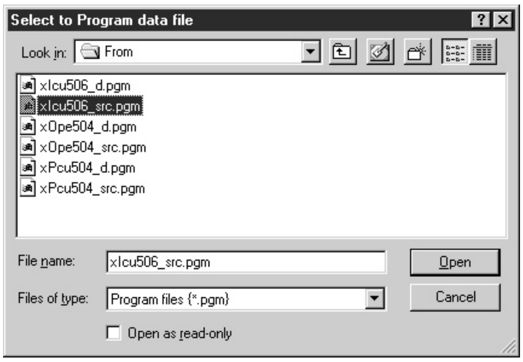
(11-4) The message of "Program Download OK ?" is displayed. Press the OK button.

(11-5) Select the data (PWB name) to be written and click the START button.


Select ROM Type
START
CANCEL

Select ROM Type: ICU ROM
4 MB

(11-6) Select the data file to be written, and click the "Open" button.


Select to Program data file
Open
Cancel

Look in: From

xIcu506_d.pgm
xIcu506_src.pgm
xOpe504_d.pgm
xOpe504_src.pgm
xPcu504_d.pgm
xPcu504_src.pgm

File name: xIcu506_src.pgm
Files of type: Program files (*.pgm)
☐ Open as read-only

With the above procedure, downloading (writing to the Flash ROM) is started.

(NOTE) Selection of data files to be written determines whether a source ROM (which includes the latest version program and the Flash ROM copy program) or a ROM which has only the latest version program is made.

12) Confirm that downloading (copying to the Flash ROM) is completed on the computer display and on the LCD display. It normally takes 5 to 7 minutes to copy (write) to the Flash ROM.

When downloading is normally completed, the following indications are shown.

∗ LED3 on the ICU PWB are turned off, and LED1 and LED2 flash at a low speed.

∗ "FIRMWARE UPGRADE FINISHED" is displayed on the LCD.

13) Cancel the simulation 49-1, and turn off the power of the machine.

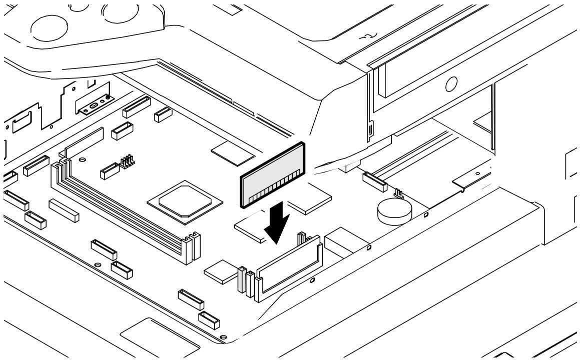
(Note) If the Flash ROM is removed from or installed to the machine with the machine power ON, the Flash ROM may be destroyed. Be sure to turn off the power of the machine before removing or installing the Flash ROM.

14) Remove the Flash ROM (which was upgraded) installed to the ICU MAIN PWB Write socket in procedure 1).

When another Flash ROM is to be upgraded, install it to the ICU PWB Write socket and turn on the power, and perform procedures 11) through 14).

B. Method using two Flash ROM sockets on the ICU MAIN PWB to copy between Flash ROM’s

1) Check that the power of the machine is OFF. Install the Flash ROM (of either of ICU PWB, PCU PWB, or operation control PWB) to the ICU PWB Write socket.



2) Install the source Flash ROM (which has the program data of either of ICU PWB, PCU PWB, or operation control PWB) to the ICU PWB Read socket.
3) Turn on the power of the machine. Copying is started. When copying is completed, LED3 on the ICU PWB are turned off, and LED1 and LED2 flash at a low speed. It normally takes 30 to 60 sec to copy (write) to the Flash ROM.
4) Turn off the power of the machine, and remove the Flash ROM's from the Read and the Write sockets.

(After work)

1) Installed the copied Flash ROM to the specified PWB.
2) Turn on the power of the machine and check that the machine operates normally.
3) Use the simulation 22-5 to check each ROM version.
4) Install the shield plate and the stopper shift. (3 screws)
5) Attach the right upper cabinet of the machine. (2 screws)

(NOTE)

The monitor displays before and after and during the Flash ROM version up (copy) operation are shown below. If the Flash ROM version up operation is not completed normally or if the Flash ROM is not installed to the socket properly, a trouble code is displayed. In that case, perform the countermeasures shown in the table below.

(1) ICU MAIN PWB monitor LED lighting specification

The monitor LED status during copy (write) operation of PC to Flash ROM and Flash ROM to Flash ROM is shown below. In the copy mode of Flash ROM to Flash ROM, the machine status is indicated only with the monitor LED.

While in the copy mode of PC to Flash ROM, the status is indicated on the operation panel or the PC monitor.

Status LED lighting specifications

	LED1	LED2	LED3	Mode
Status 1	Low-speed flashing	Low-speed flashing	OFF	Normal operation
Status 2	High-speed flashing	High-speed flashing	High-speed flashing	System down
Display when writing the program data from PC to Flash ROM				
Status 3	ON	OFF	OFF	Download SIM start
Status 4	OFF	Flashing	OFF	Download ROM not-installed error
Status 5	Flashing	ON	OFF	During data transfer from PC
Status 6	Flashing	Flashing	OFF	Data transfer error from PC
Status 7	ON	ON	OFF	Flash deleting
Status 8	OFF	Flashing	OFF	Flash deleting error
Status 9	Flashing	ON	OFF	Flash writing
Status 10	Flashing	Flashing	OFF	Flash writing error
Status 11	ON	ON	OFF	Verifying
Status 12	ON	Flashing	OFF	Verifying error
Status 13	Low-speed flashing	Low-speed flashing	OFF	Normal completion
Display when copying data from Flash ROM to Flash ROM				
Status 14	ON	ON	OFF	ROM copy start
Status 15	OFF	Flashing	OFF	Download ROM not-installed error
Status 16	ON	ON	OFF	ROM capacity checking
Status 17	ON	Flashing	OFF	ROM capacity check error
Status 18	ON	ON	OFF	Flash deleting
Status 19	OFF	Flashing	OFF	Flash deleting error
Status 20	Flashing	ON	OFF	Flash writing
Status 21	Flashing	Flashing	OFF	Flash writing error
Status 22	ON	ON	OFF	Verifying
Status 23	ON	Flashing	OFF	Verifying error
Status 24	Low-speed flashing	Low-speed flashing	OFF	Normal completion

Status in bold means an error

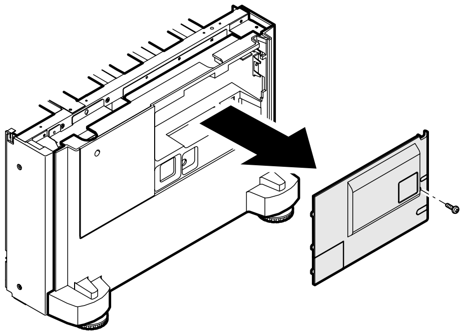
(2) Operation panel display specifications (SIM 49-1)
The operation panel display status in PC to Flash ROM copying (writing) is shown in the table below.

Display message	Operation/Content	Countermeasures
NOW EXECUTING ...	Simulation start	
THIS COPIER IS NOT CONNECTED TO PC.	The cable is not connected.	Turn off the power of the copier machine, and check the connection again.
FLASH ROM ISN'T INSERTED INTO A CONNCTOR.	The writing Flash ROM is not inserted into the socket.	Turn off the copier machine, insert the Flash ROM.
WAITING FOR DATA	Waiting for starting the Flash ROM writing software on PC side	Boot the software for writing to Flash ROM on PC.
ERASING FLASH ...	Deleting	
WRITING FLASH ...	Writing	
VERIFYING FLASH ...	Verifying	
FLASH ERASE ERROR.	Failure in erase of Flash ROM for writing	Try again, or replace the Flash ROM.
FLASH WRITE ERROR.	Failure in copy (write) of Flash ROM for writing	Try again, or replace the Flash ROM.
FLASH VERIFY ERROR.	Failure in verifying Flash ROM content for writing	Try again, or replace the Flash ROM.
DOWNLOADING NOW ...	Data downloading	
DOWNLOAD ERROR.	Data transfer failure	Tray data transfer again, or tray simulation again.
FIRMWARE UPGRADE FINISHED.	Data transfer complete	
THIS SIMULATION DOES NOT WORK IN THIS ROM VERSION.	Displayed when ICU Flash ROM does not support this simulation.	ICU Flash ROM Version up

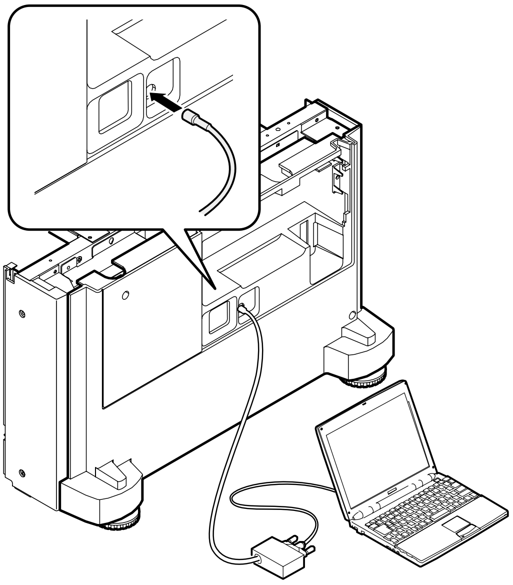
When the power of PC is down during data transfer, data transfer is performed from the beginning.

(In the case of Desk control PWB)

1) Remove the desk unit power source cover. (One screw)



2) Check that the machine power is off, and connect the PC and the level converter desk unit serial I/F connector and the level converter.

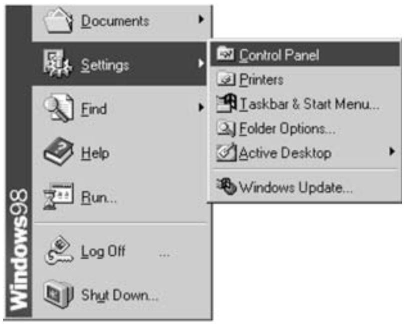


3) Turn on the PC, and start Windows.

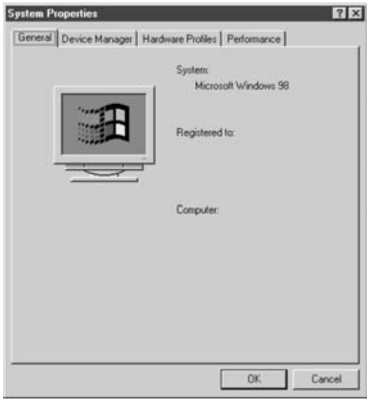
4) Set the data transfer speed of PC.

In the case of Windows 95/98:

(4-1) Open the "Control panel."


Documents
Settings
Find
Help
Run...
Log Off ...
Shut Down...
Windows98
Control Panel
Printers
Taskbar & Start Menu...
Folder Options...
Active Desktop
Windows Update...

(4-2) Open the "System."

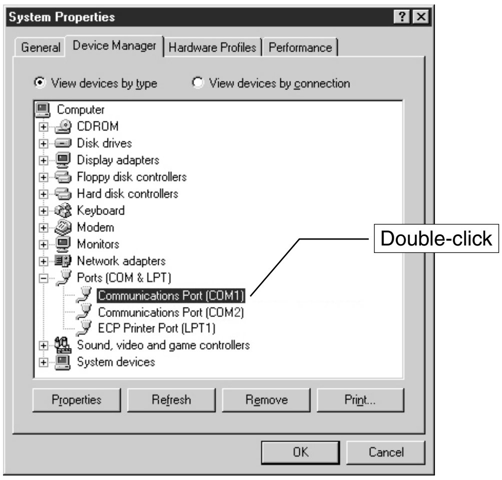

System Properties
General
Device Manager
Hardware Profiles
Performance
OK
Cancel

System:
Microsoft Windows 98

Registered to:

Computer:

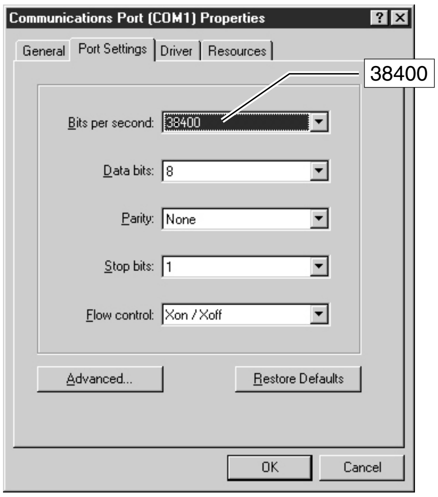
(4-3) Click the "Device manager" and click the "Port (COM/LPT)," and double-click the "Communication port (COM*) to be used.


System Properties
General
Device Manager
Hardware Profiles
Performance
View devices by type
View devices by connection
Computer
CDROM
Disk drives
Display adapters
Floppy disk controllers
Hard disk controllers
Keyboard
Modem
Monitors
Network adapters
Ports (COM & LPT)
Communications Port (COM1)
Communications Port (COM2)
ECP Printer Port (LPT1)
Sound, video and game controllers
System devices
Properties
Refresh
Remove
Print...
OK
Cancel

Double-click

(4-4) Set the bit/sec of port set menu to 38400.
If 38400 cannot be set, set either of the following communication speeds.

9600/19200

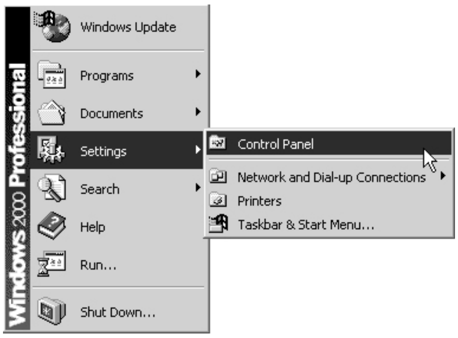

Communications Port (COM1) Properties
General
Port Settings
Driver
Resources
Advanced...
Restore Defaults
OK
Cancel

Bits per second: 38400
Data bits: 8
Parity: None
Stop bits: 1
Flow control: Xon / Xoff

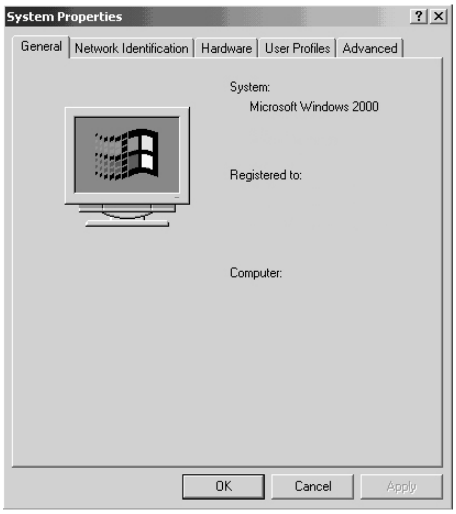
38400

In the case of Windows 2000:

(4-1) Open the "Control panel."


Windows 2000 Professional
Windows Update
Programs
Documents
Settings
Search
Help
Run...
Shut Down...
Control Panel
Network and Dial-up Connections
Printers
Taskbar & Start Menu...

(4-2) Open the "System."

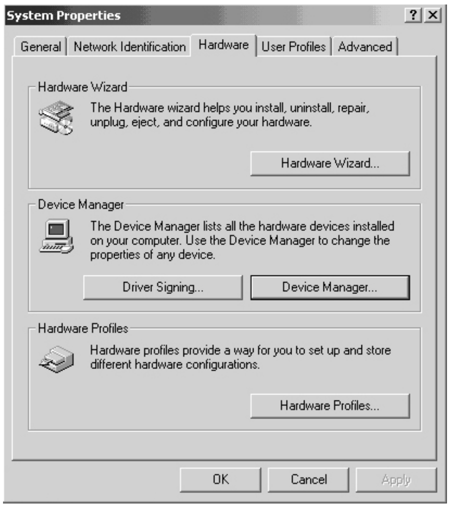

System Properties
General
Network Identification
Hardware
User Profiles
Advanced
OK
Cancel
Apply

System:
Microsoft Windows 2000

Registered to:

Computer:

(4-3) Open the "Device manager" on the hardware menu.

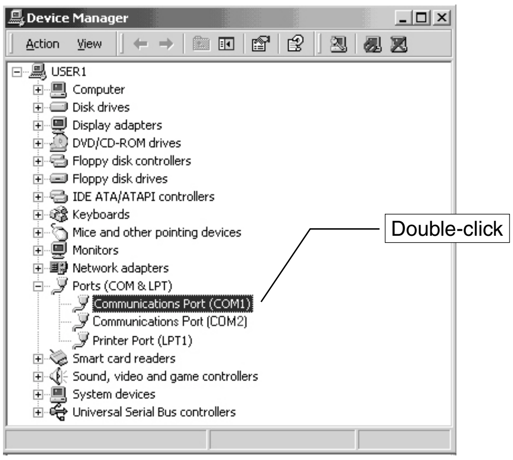

System Properties
General
Network Identification
Hardware
User Profiles
Advanced
Hardware Wizard
Hardware Wizard...
Device Manager
Driver Signing...
Device Manager...
Hardware Profiles
Hardware Profiles...
OK
Cancel
Apply

The Hardware wizard helps you install, uninstall, repair, unplug, eject, and configure your hardware.

The Device Manager lists all the hardware devices installed on your computer. Use the Device Manager to change the properties of any device.

Hardware profiles provide a way for you to set up and store different hardware configurations.

(4-4) Click the "Port (COM/LPT)", and double-click the "Communication port (COM*)" to be used.

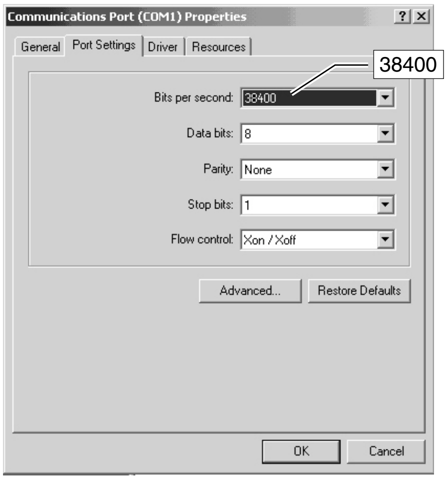

Device Manager
Action
View
USER1
Computer
Disk drives
Display adapters
DVD/CD-ROM drives
Floppy disk controllers
Floppy disk drives
IDE ATA/ATAPI controllers
Keyboards
Mice and other pointing devices
Monitors
Network adapters
Ports (COM & LPT)
Communications Port (COM1)
Communications Port (COM2)
Printer Port (LPT1)
Smart card readers
Sound, video and game controllers
System devices
Universal Serial Bus controllers

Double-click

(4-5) Set the bit/sec of the port set menu to 38400, and click the OK button to close the communication port (COM*) property.

If 38400 cannot be set, set either of the following communication speeds.

9600/19200


Communications Port (COM1) Properties
General
Port Settings
Driver
Resources
38400
Advanced...
Restore Defaults
OK
Cancel

Bits per second: 38400

Data bits: 8

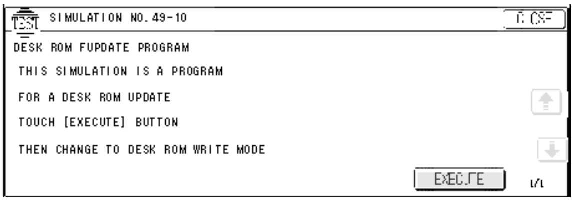
Parity: None

Stop bits: 1

Flow control: Xon / Xoff

5) Turn on the power of the machine.

6) Enter the simulation 49-10 mode. (Press the EXECUTE key to enter the download (Flash ROM writing) mode.)



SIMULATION NO. 49-10

DESK ROM FUPDATE PROGRAM

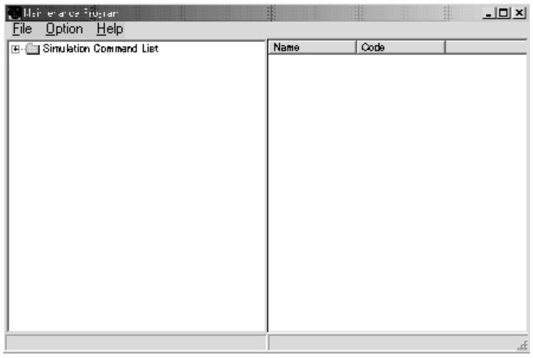
THIS SIMULATION IS A PROGRAM

FOR A DESK ROM UPDATE

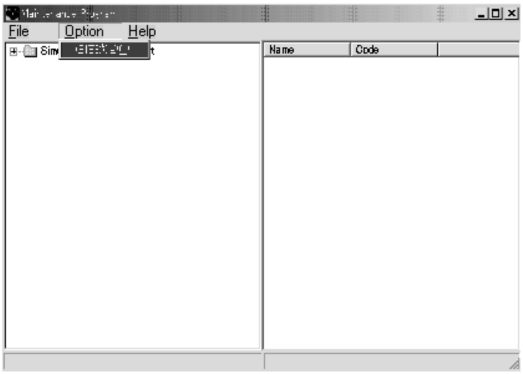
TOUCH [EXECUTE] BUTTON

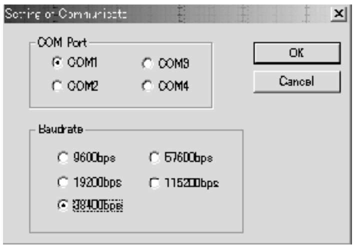
THEN CHANGE TO DESK ROM WRITE MODE

7) Start the download program on the PC side by double-clicking the Mainte.exe file. The following window is indicated.


Maintenance Program
File
Option
Help
Simulation Command List
Name
Code

8) Select the communication setup in the option menu, and set the communication speed same as which is set in procedure 4).


Maintenance Program
File
Option
Help
Name
Code


Setting of Communication
OK
Cancel

COM Port

● COM1 ○ COM3

○ COM2 ○ COM4

Baudrate

○ 9600bps ○ 57600bps

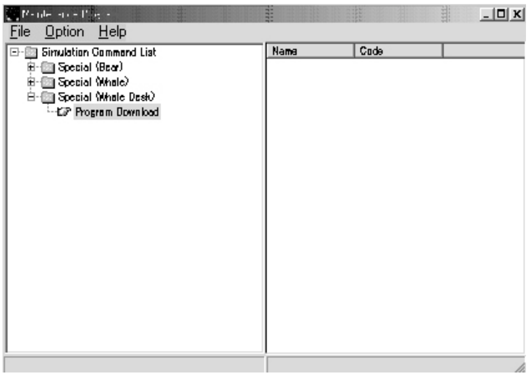
○ 19200bps ○ 115200bps

● 38400bps

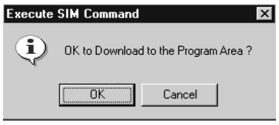
9) Select the data file to be written.

(9-1) Double-click the Simulation Command List folder.

(9-2) Double-click the Special (Whale Desk) folder.

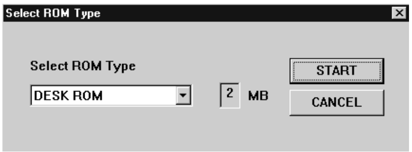

File
Option
Help
Simulation Command List
Special (Bear)
Special (Whale)
Special (Whale Desk)
Program Download
Name
Code

(9-3) Double-click the file Program Download, and the following dialog is displayed. Click the OK button.


Execute SIM Command
OK
Cancel

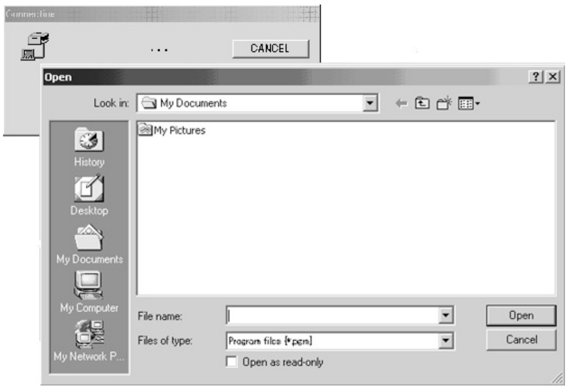
OK to Download to the Program Area ?

(9-4) Then the following dialog is displayed. Click the START button.


Select ROM Type
START
CANCEL

Select ROM Type: DESK ROM 2 MB

(9-5) The file selection dialog is displayed. Select the data file to be written, and click the Open button.

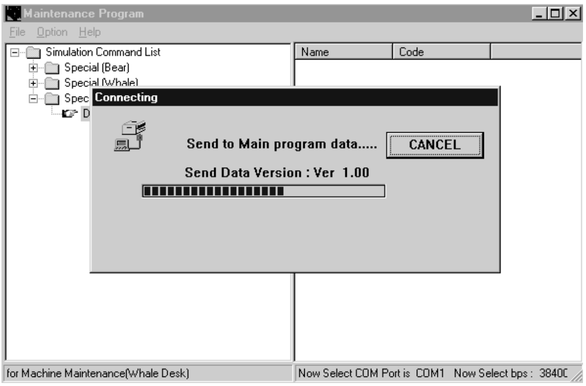

Connection
...
CANCEL
Open
History
Desktop
My Documents
My Computer
My Network P...
My Pictures
Open
Cancel
Open as read-only

Look in: My Documents

File name:

Files of type: Program files (*.pgm)

10) With the above procedures, writing is started and the following display is shown.


Maintenance Program
File Option Help
Simulation Command List
Special (Bear)
Special (Whale)
Spec
Name
Code
Connecting
CANCEL

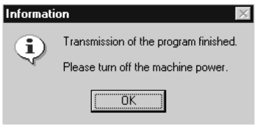
Send to Main program data.....

Send Data Version : Ver 1.00

for Machine Maintenance(Whale Desk)

Now Select COM Port is COM1 Now Select bps : 38400

11) Check on the PC display that writing is completed. (When writing is normally completed, the following dialog is displayed.)


Information
OK

Transmission of the program finished.

Please turn off the machine power.

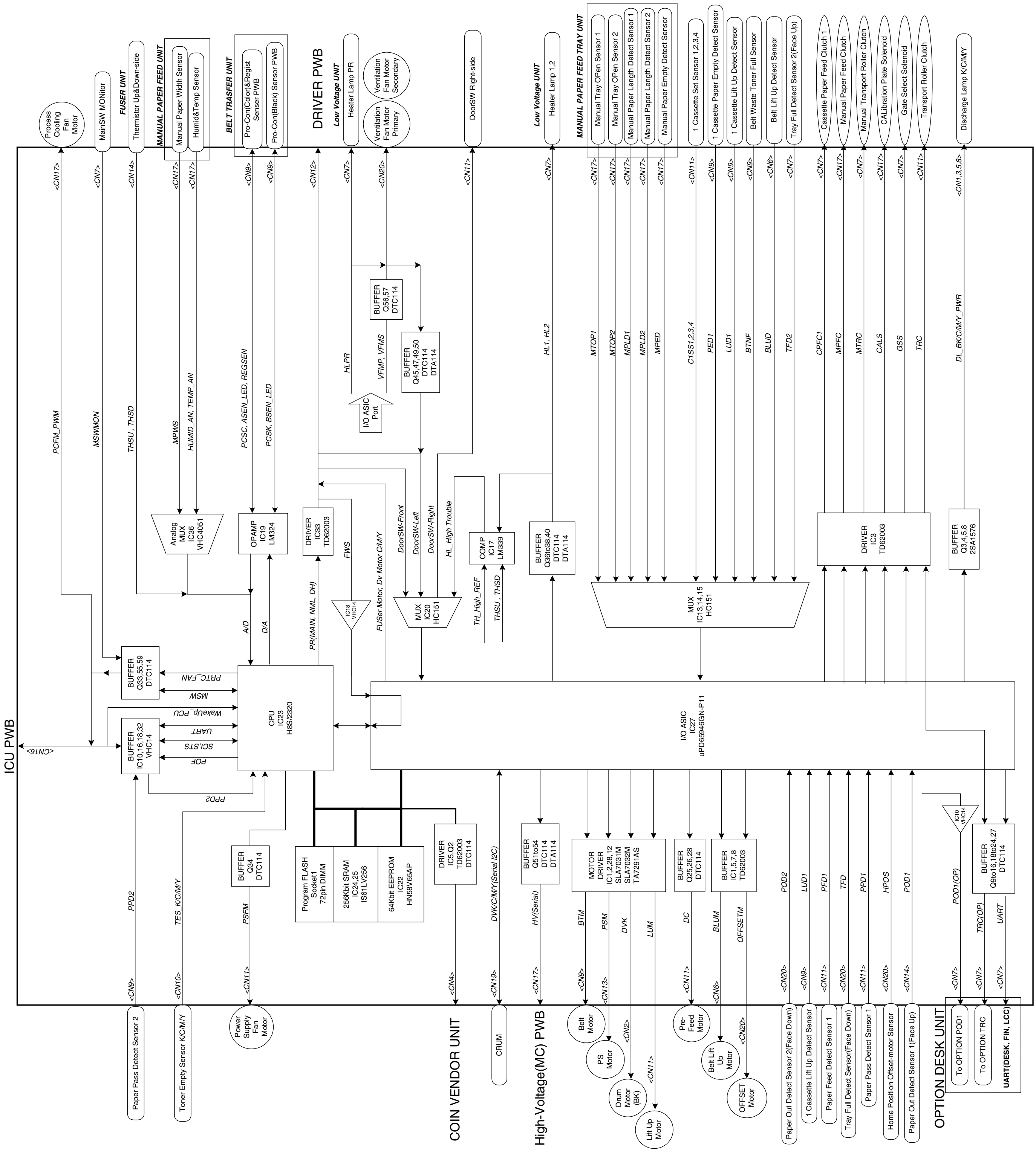
12) Turn off the machine power, and disconnect the level converter.

(NOTE) When connecting or disconnecting the level converter, be sure to turn off the machine power in advance. If the level converter is connected or disconnected with the power ON, the level converter may be damaged.

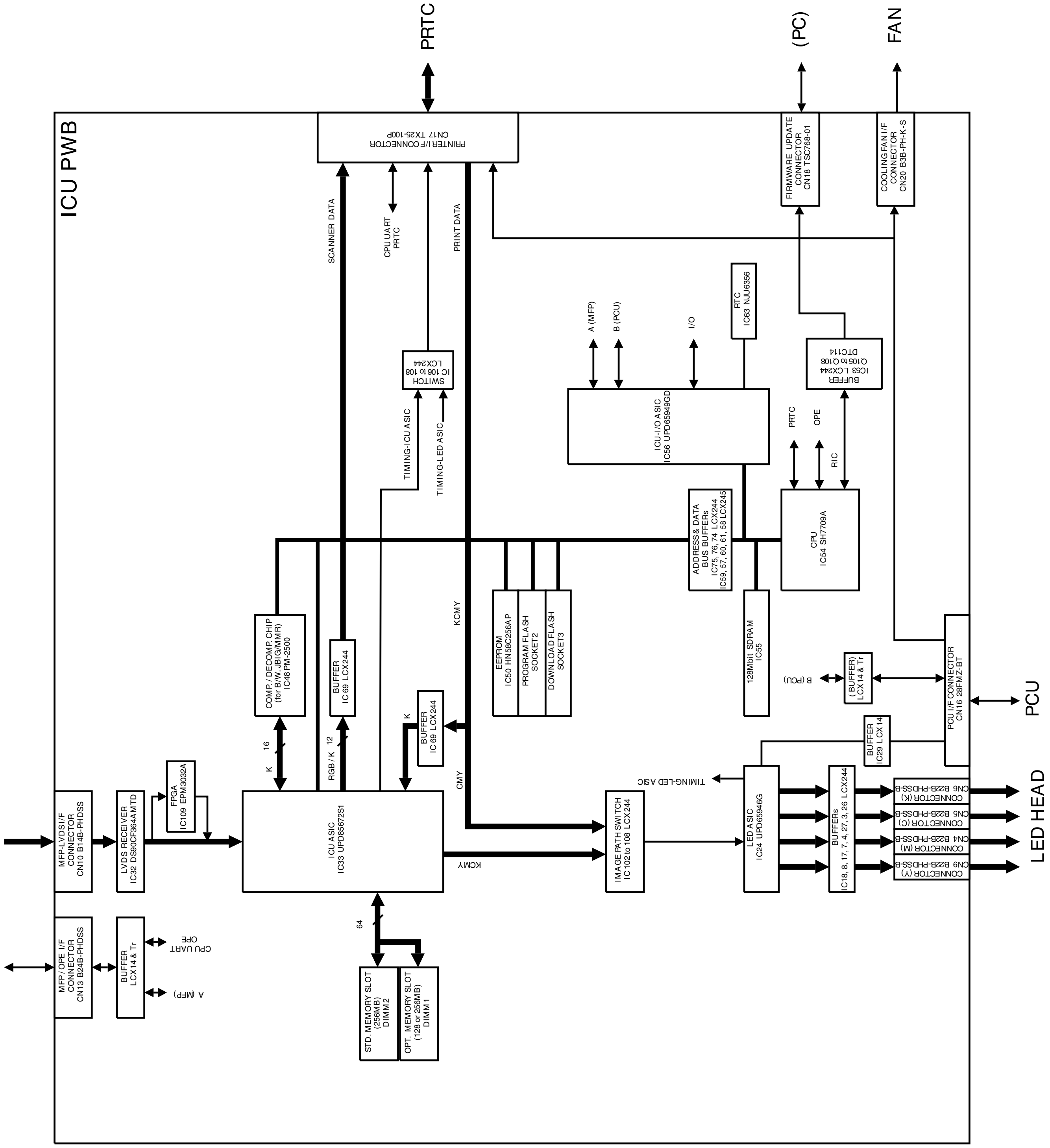
[13] ELECTRIC DIAGRAM

1. Block diagram

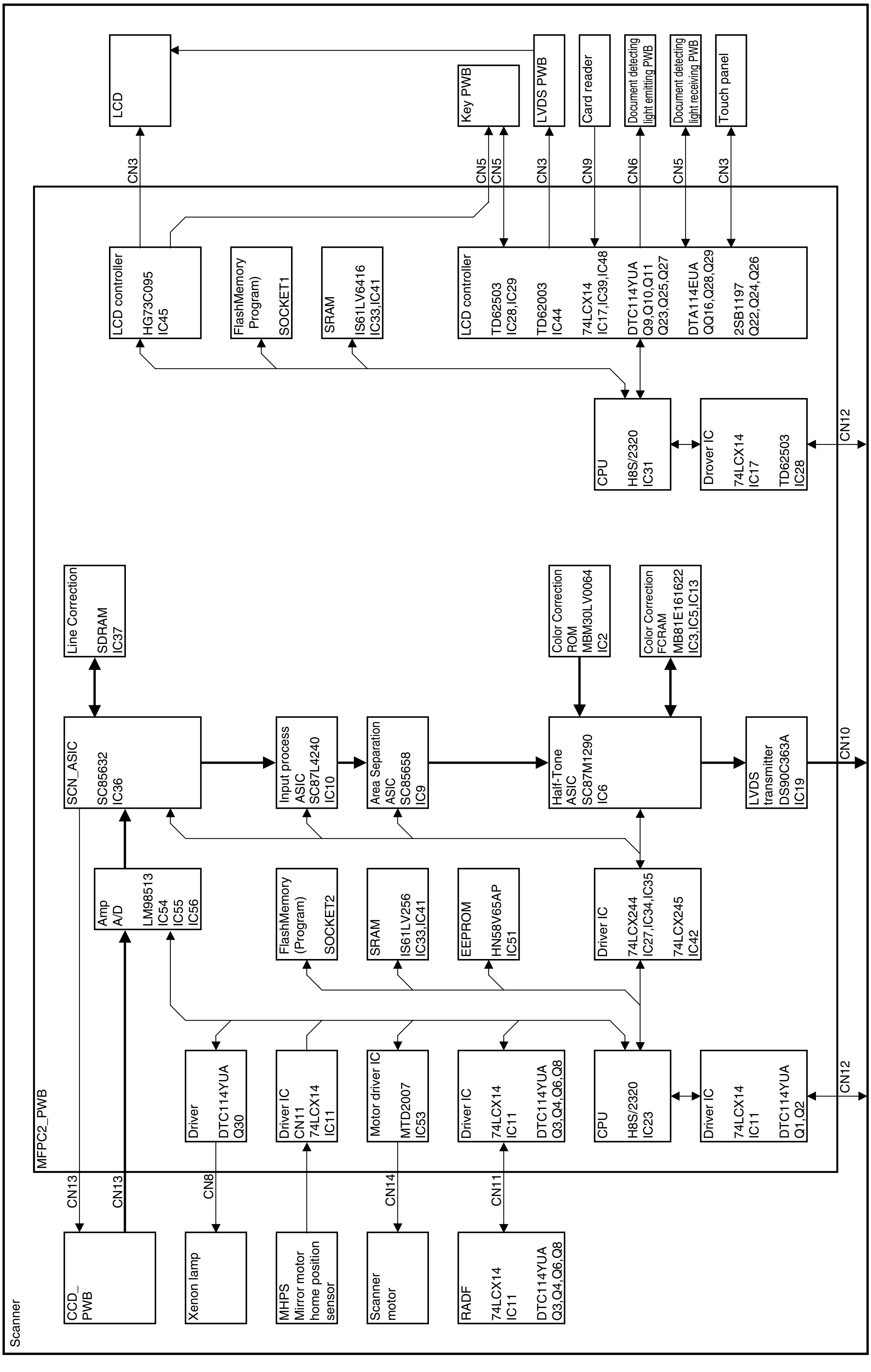
A. PCU PWB


ICU PWB
<CN16>
Process Cooling Fan Motor
MainSW MONitor
FUSER UNIT
Thermistor Up&Down-side
MANUAL PAPER FEED UNIT
Manual Paper Width Sensor
Humid&Temp Sensor
BELT TRASFER UNIT
Pro-Con(Color)&Regist Senser PWB
Pro-Con(Black) Sensor PWB
DRIVER PWB
Low Voltage UNIT
Heater Lamp PR
Ventilation Fan Motor Secondary
Ventilation Fan Motor Primary
DoorSW Right-side
Low Voltage UNIT
Heater Lamp 1,2
MANUAL PAPER FEED TRAY UNIT
Manual Tray OPen Sensor 1
Manual Tray OPen Sensor 2
Manual Paper Length Detect Sensor 1
Manual Paper Length Detect Sensor 2
Manual Paper Empty Detect Sensor
1 Cassette Set Sensor 1,2,3,4
1 Cassette Paper Empty Detect Sensor
1 Cassette Lift Up Detect Sensor
Belt Waste Toner Full Sensor
Belt Lift Up Detect Sensor
Tray Full Detect Sensor 2(Face Up)
Cassette Paper Feed Clutch 1
Manual Paper Feed Clutch
Manual Transport Roller Clutch
CALibration Plate Solenoid
Gate Select Solenoid
Transport Roller Clutch
Discharge Lamp K/C/M/Y
PCFM_PWM
MSWMON
THSU, THSD
MPWS
HUMID_AN, TEMP_AN
PCSC, ASEN_LED, REGSEN
PCSK, BSEN_LED
HLPR
VFMP, VFMS
HL1, HL2
MTOP1
MTOP2
MPLD1
MPLD2
MPED
C1SS1,2,3,4
PED1
LUD1
BTNF
BLUD
TFD2
CPFC1
MPFC
MTRC
CALS
GSS
TRC
DL_BK/C/M/Y_PWR
BUFFER Q56,57 DTC114
BUFFER Q45,47,49,50 DTC114 DTA114
I/O ASIC Port
Analog MUX IC36 VHC4051
OPAMP IC19 LM324
DRIVER IC33 TD62003
COMP IC17 LM339
BUFFER Q36to38,40 DTC114 DTA114
DRIVER IC3 TD62003
BUFFER Q3,4,5,8 2SA1576
FWS
DoorSW-Front
DoorSW-Left
DoorSW-Right
HL_High Trouble
TH_High_REF
THSU, THSD
PR(MAIN, NML, DH)
FUSer Motor, Dv Motor C/M/Y
IC18 VHC14
MUX IC20 HC151
MUX IC13,14,15 HC151
A/D
D/A
BUFFER Q33,55,59 DTC114
BUFFER IC10,16,18,32 VHC14
PRTC_FAN
MSW
WakeUp_PCU
UART
SCI,STS
POF
PPD2
CPU IC23 H8S/2320
I/O ASIC IC27 uPD65946GN-P11
BUFFER Q34 DTC114
Program FLASH Socket1 72pin DIMM
256Kbit SRAM IC24,25 IS61LV256
64Kbit EEPROM IC22 HN58V65AP
DRIVER IC5,Q2 TD62003 DTC114
BUFFER Q51to54 DTC114 DTA114
MOTOR DRIVER IC1,2,28,12 SLA7031M SLA7032M TA7291AS
BUFFER Q25,26,28 DTC114
BUFFER IC1,5,7,8 TD62003
IC10 VHC14
BUFFER Q9to16,18to24,27 DTC114
PPD2
TES_K/C/M/Y
PSFM
DVK(C/M/Y(Serial I2C)
HV(Serial)
BTM
PSM
DVK
LUM
DC
BLUM
OFFSETM
POD2
LUD1
PFD1
TFD
PPD1
HPOS
POD1
POD1(OP)
TRC(OP)
UART
<CN17>
<CN7>
<CN14>
<CN9>
<CN12>
<CN20>
<CN11>
<CN6>
<CN1,3,5,8>
<CN10>
<CN4>
<CN19>
<CN13>
<CN2>
Paper Pass Detect Sensor 2
Toner Empty Sensor K/C/M/Y
Power Supply Fan Motor
COIN VENDOR UNIT
CRUM
High-Voltage(MC) PWB
Belt Motor
PS Motor
Drum Motor (BK)
Lift Up Motor
Pre-Feed Motor
Belt Lift Up Motor
OFFSET Motor
Paper Out Detect Sensor 2(Face Down)
1 Cassette Lift Up Detect Sensor
Paper Feed Detect Sensor 1
Tray Full Detect Sensor(Face Down)
Paper Pass Detect Sensor 1
Home Position Offset-motor Sensor
Paper Out Detect Sensor 1(Face Up)
OPTION DESK UNIT
To OPTION POD1
To OPTION TRC
UART(DESK, FIN, LCC)

B. ICU PWB

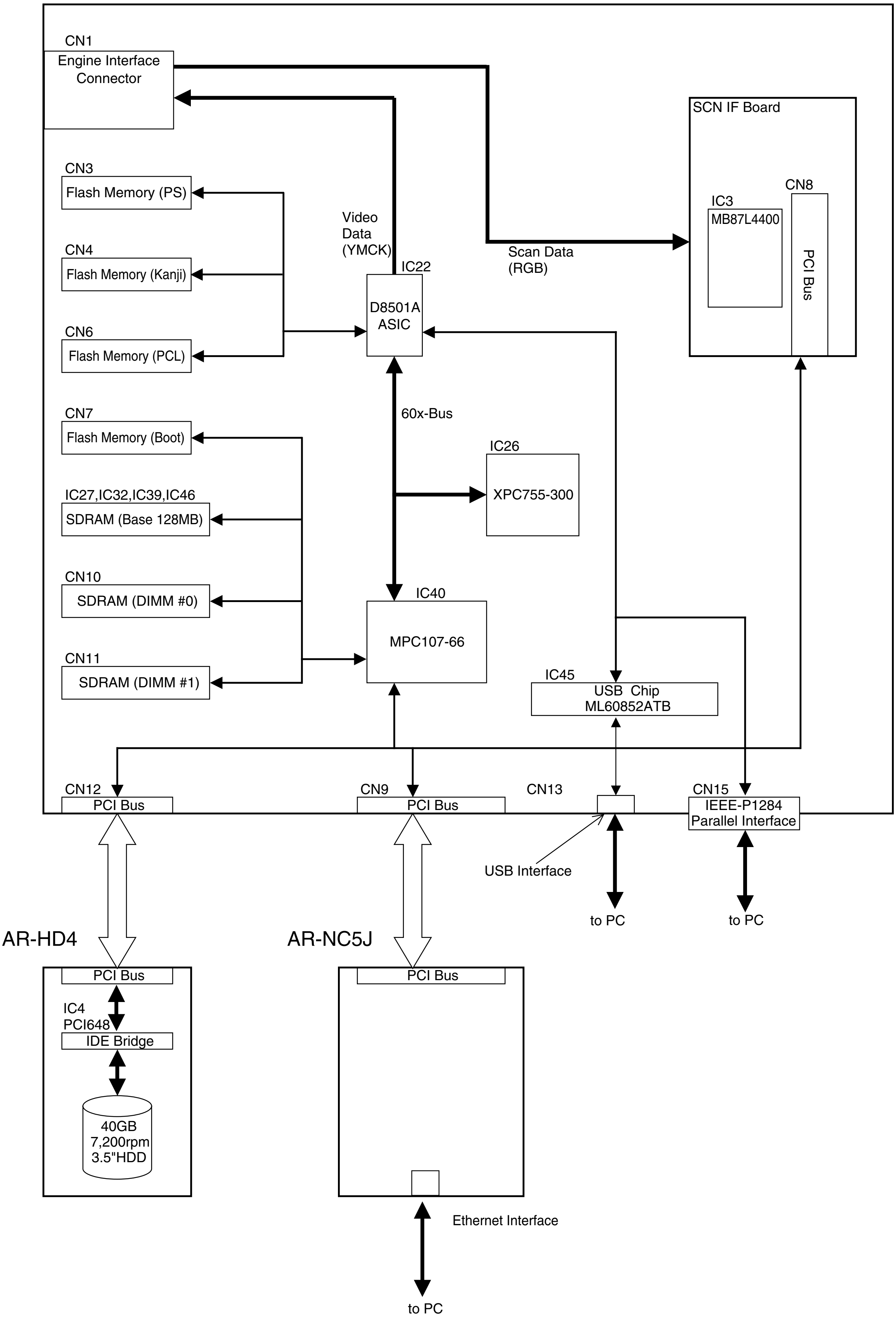

PRTC
(PC)
FAN
ICU PWB
PRINTER I/F CONNECTOR CN17 TX25-100P
FIRMWARE UPDATE CONNECTOR CN18 TSC768-01
COOLING FAN I/F CONNECTOR CN20 B3B-PH-K-S
SCANNER DATA
CPU UART PRTC
PRINT DATA
RTC IC63 NJU6356
A (MFP)
B (PCU)
I/O
SWITCH IC 106 to 108 LCX244
BUFFER IC53 LCX244 Q105 to Q108 DTC114
TIMING-ICU ASIC
TIMING-LED ASIC
ICU-I/O ASIC IC56 UPD65949GD
PRTC
OPE
RIC
ADDRESS & DATA BUS BUFFERs IC75, 76, 74 LCX244 IC59, 57, 60, 61, 58 LCX245
CPU IC54 SH7709A
KCMY
COMP./DECOMP. CHIP (for B/W, JBIG/MMR) IC48 PM-2500
BUFFER IC 69 LCX244
EEPROM IC50 HN58C256AP
PROGRAM FLASH SOCKET2
DOWNLOAD FLASH SOCKET3
128Mbit SDRAM IC55
B (PCU)
(BUFFER) LCX14 & Tr
PCU I/F CONNECTOR CN16 28FMZ-BT
PCU
K
BUFFER IC 69 LCX244
BUFFER IC29 LCX14
K
16
RGB / K
12
CMY
FPGA IC109 EPM3032A
TIMING-LED ASIC
MFP
MFP-LVDSI/F CONNECTOR CN10 B14B-PHDSS
LVDS RECEIVER IC32 DS90CF364AMTD
ICU ASIC IC33 UPD65672S1
IMAGE PATH SWITCH IC 102 to 108 LCX244
KCMY
LED ASIC IC24 UPD65946G
BUFFERs IC18, 8, 17, 7, 4, 27, 3, 26 LCX244
CN6 B22B-PHDSS-B CONNECTOR (K)
CN5 B22B-PHDSS-B CONNECTOR (C)
CN4 B22B-PHDSS-B CONNECTOR (M)
CN9 B22B-PHDSS-B CONNECTOR (Y)
LED HEAD
64
MFP
MFP/OPE I/F CONNECTOR CN13 B24B-PHDSS
BUFFER LCX14 & Tr
CPU UART OPE
A (MFP)
STD. MEMORY SLOT (256MB) DIMM2
OPT. MEMORY SLOT (128 or 256MB) DIMM1

C. MFP PWB

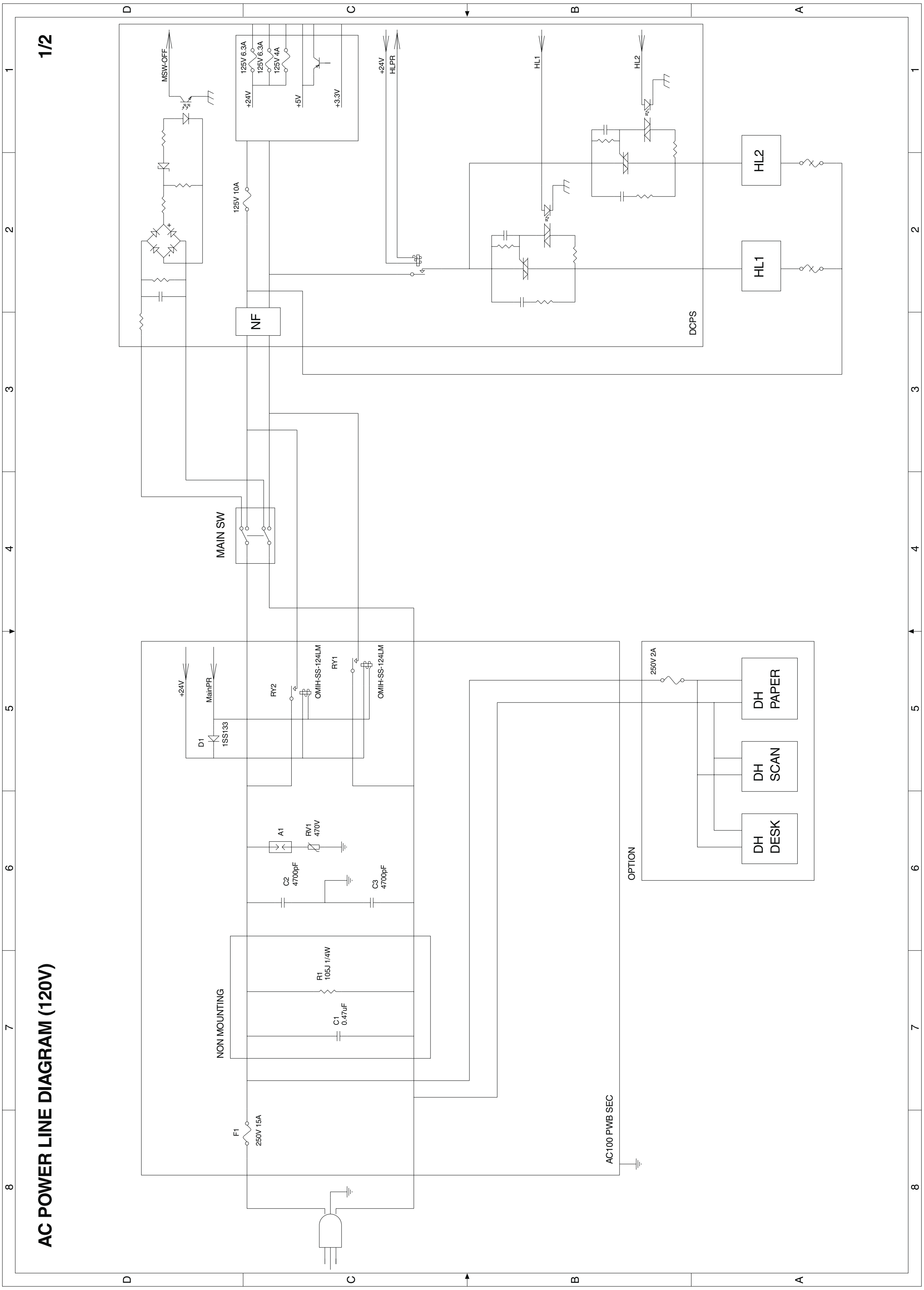


LCD
Key PWB
LVDS PWB
Card reader
Document detecting light emitting PWB
Document detecting light receiving PWB
Touch panel
CN3
CN5
CN5
CN3
CN9
CN6
CN5
CN3
LCD controller HG73C095 IC45
FlashMemory Program) SOCKET1
SRAM IS61LV6416 IC33,IC41
LCD controller TD62503 IC28,IC29 TD62003 IC44 74LCX14 IC17,IC39,IC48 DTC114YUA Q9,Q10,Q11 Q23,Q25,Q27 DTA114EUA QQ16,Q28,Q29 2SB1197 Q22,Q24,Q26
CPU H8S/2320 IC31
Drover IC 74LCX14 IC17 TD62503 IC28
CN12
Line Correction SDRAM IC37
Color Correction ROM MBM30LV0064 IC2
Color Correction FCRAM MB81E161622 IC3,IC5,IC13
SCN_ASIC SC85632 IC36
Input process ASIC SC87L4240 IC10
Area Separation ASIC SC85658 IC9
Half-Tone ASIC SC87M1290 IC6
LVDS transmitter DS90C363A IC19
CN10
Amp A/D LM98513 IC54 IC55 IC56
FlashMemory (Program) SOCKET2
SRAM IS61LV256 IC33,IC41
EEPROM HN58V65AP IC51
Driver IC 74LCX244 IC27,IC34,IC35 74LCX245 IC42
MFPC2_PWB
Driver DTC114YUA Q30
Driver IC CN11 74LCX14 IC11
Motor driver IC MTD2007 IC53
Driver IC 74LCX14 IC11 DTC114YUA Q3,Q4,Q6,Q8
CPU H8S/2320 IC23
Driver IC 74LCX14 IC11 DTC114YUA Q1,Q2
CN12
CN13
CN13
CN8
CN14
CN11
CCD_ PWB
Xenon lamp
MHPS Mirror motor home position sensor
Scanner motor
RADF 74LCX14 IC11 DTC114YUA Q3,Q4,Q6,Q8
Scanner

D. PRINT CONTROL PWB

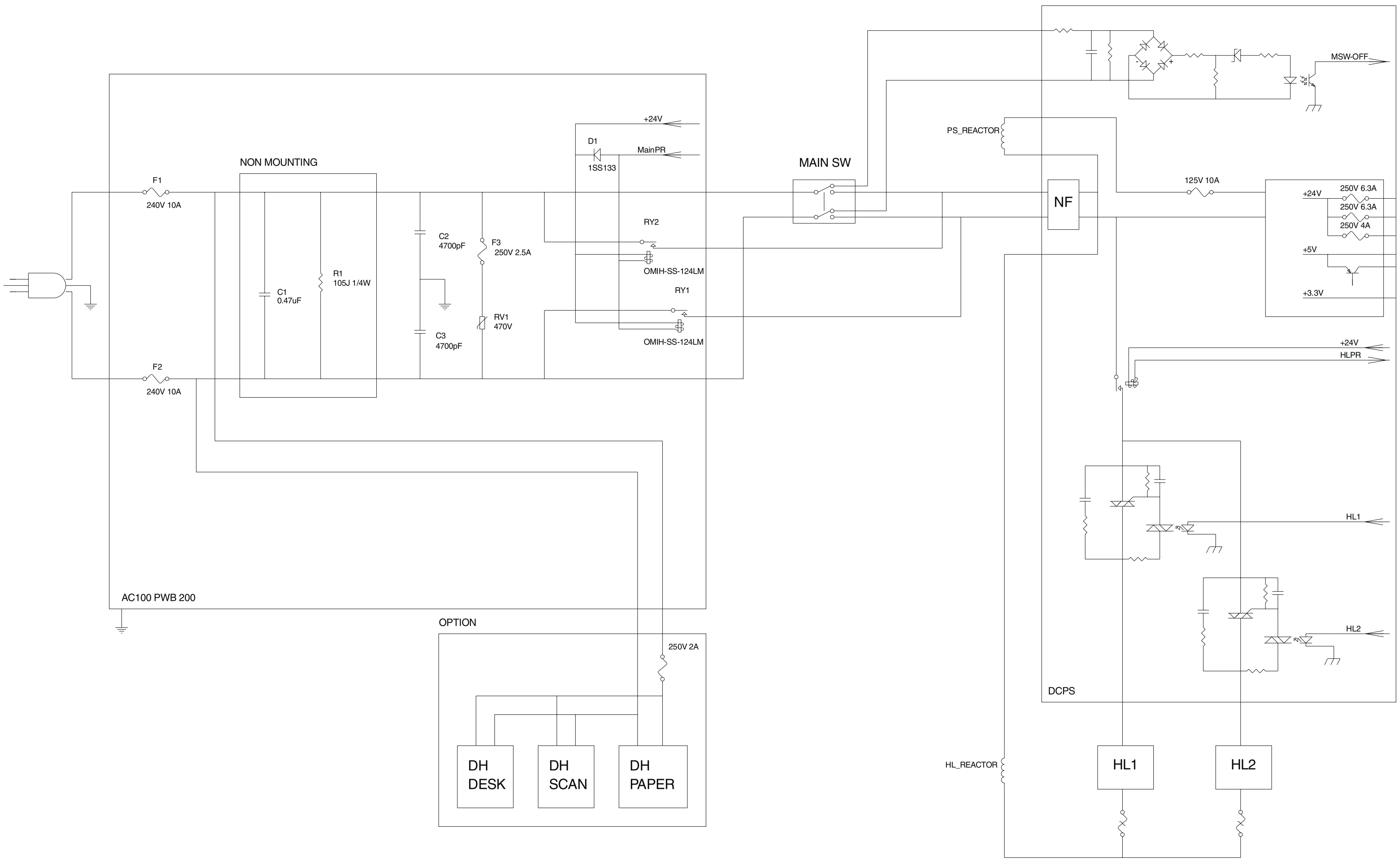

CN1
Engine Interface Connector
CN3
Flash Memory (PS)
CN4
Flash Memory (Kanji)
CN6
Flash Memory (PCL)
CN7
Flash Memory (Boot)
IC27,IC32,IC39,IC46
SDRAM (Base 128MB)
CN10
SDRAM (DIMM #0)
CN11
SDRAM (DIMM #1)
Video Data (YMCK)
IC22
D8501A ASIC
60x-Bus
IC26
XPC755-300
IC40
MPC107-66
Scan Data (RGB)
SCN IF Board
IC3
MB87L4400
CN8
PCI Bus
IC45
USB Chip ML60852ATB
CN12
PCI Bus
CN9
PCI Bus
CN13
CN15
IEEE-P1284 Parallel Interface
USB Interface
to PC
to PC
AR-HD4
PCI Bus
IC4
PCI648
IDE Bridge
40GB 7,200rpm 3.5"HDD
AR-NC5J
PCI Bus
Ethernet Interface
to PC

2. AC power line diagram

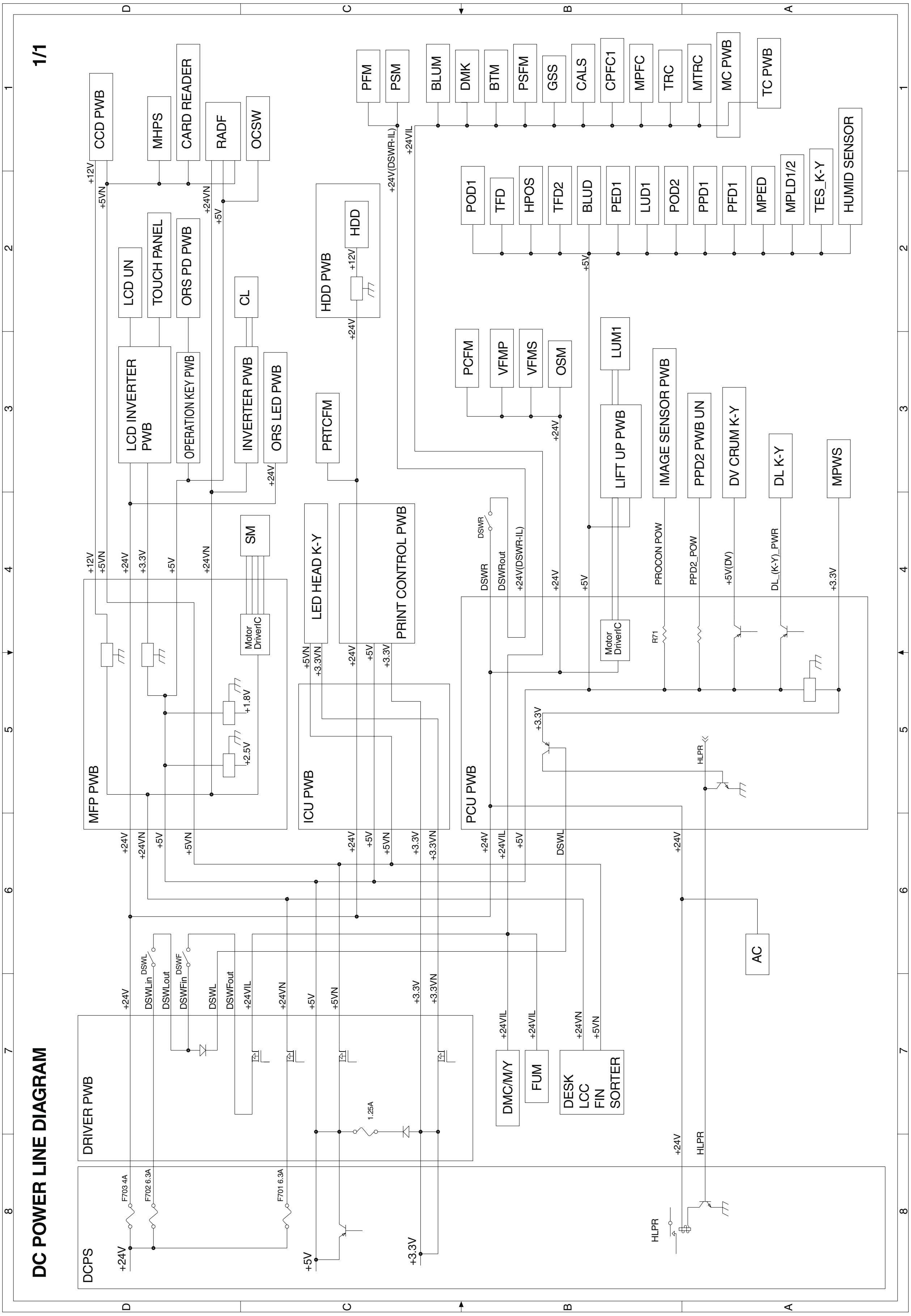

AC POWER LINE DIAGRAM (120V)
1/2
MSW-OFF
125V 6.3A
125V 6.3A
125V 4A
+24V
+5V
+3.3V
+24V
HLPR
HL1
HL2
125V 10A
NF
DCPS
HL2
HL1
MAIN SW
+24V
MainPR
D1
1SS133
RY2
OMIH-SS-124LM
RY1
OMIH-SS-124LM
A1
RV1
470V
C2
4700pF
C3
4700pF
NON MOUNTING
R1
105J 1/4W
C1
0.47uF
F1
250V 15A
AC100 PWB SEC
OPTION
250V 2A
DH PAPER
DH SCAN
DH DESK
A
B
C
D
1
2
3
4
5
6
7
8

AC POWER LINE DIAGRAM (200V series)

2/2

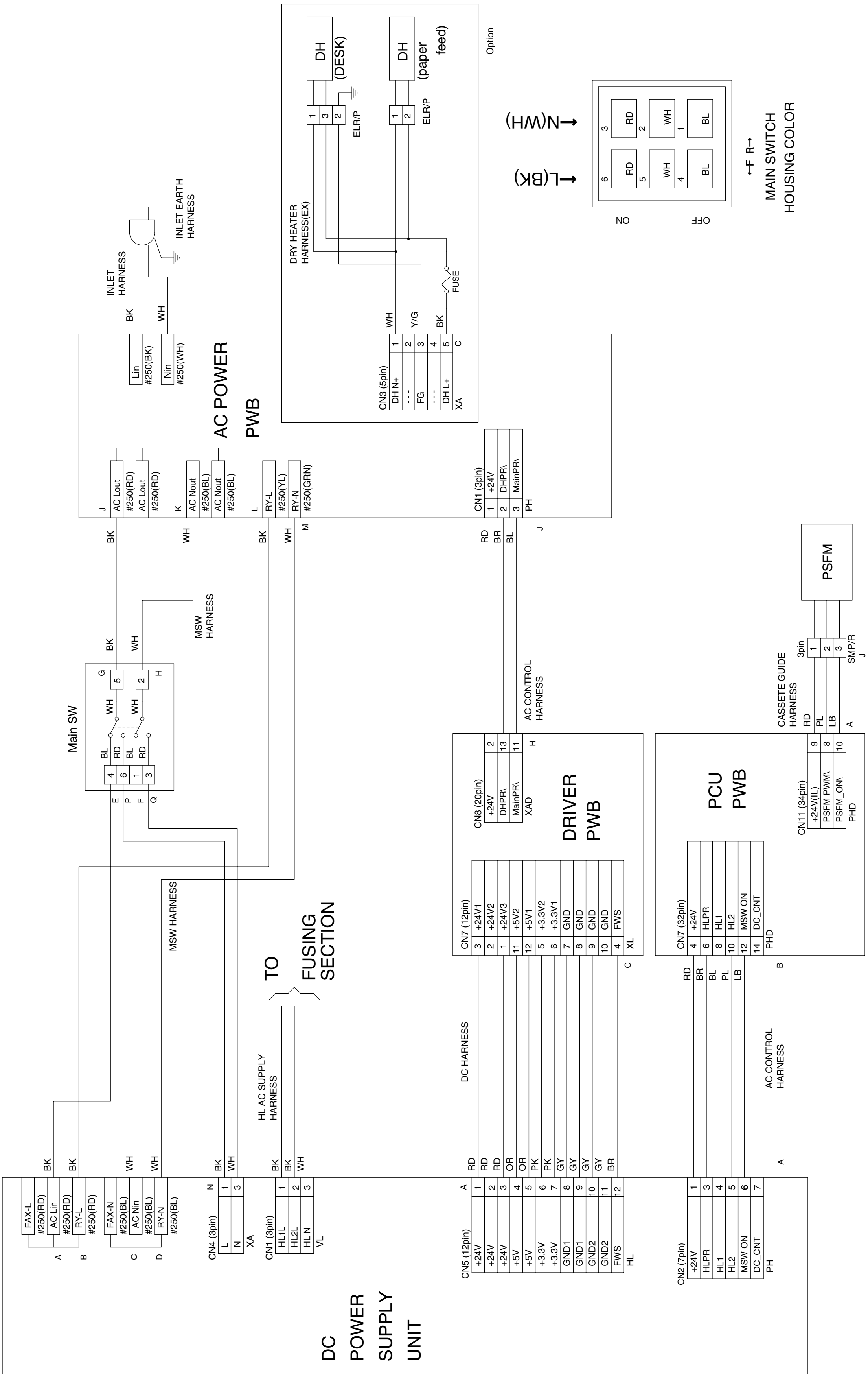

F1
240V 10A
F2
240V 10A
NON MOUNTING
C1
0.47uF
R1
105J 1/4W
C2
4700pF
C3
4700pF
F3
250V 2.5A
RV1
470V
+24V
D1
1SS133
MainPR
RY2
OMIH-SS-124LM
RY1
OMIH-SS-124LM
AC100 PWB 200
OPTION
250V 2A
DH
DESK
DH
SCAN
DH
PAPER
MAIN SW
PS_REACTOR
NF
125V 10A
+24V
250V 6.3A
250V 6.3A
250V 4A
+5V
+3.3V
MSW-OFF
+24V
HLPR
HL1
HL2
DCPS
HL_REACTOR
HL1
HL2

3. DC power line diagram

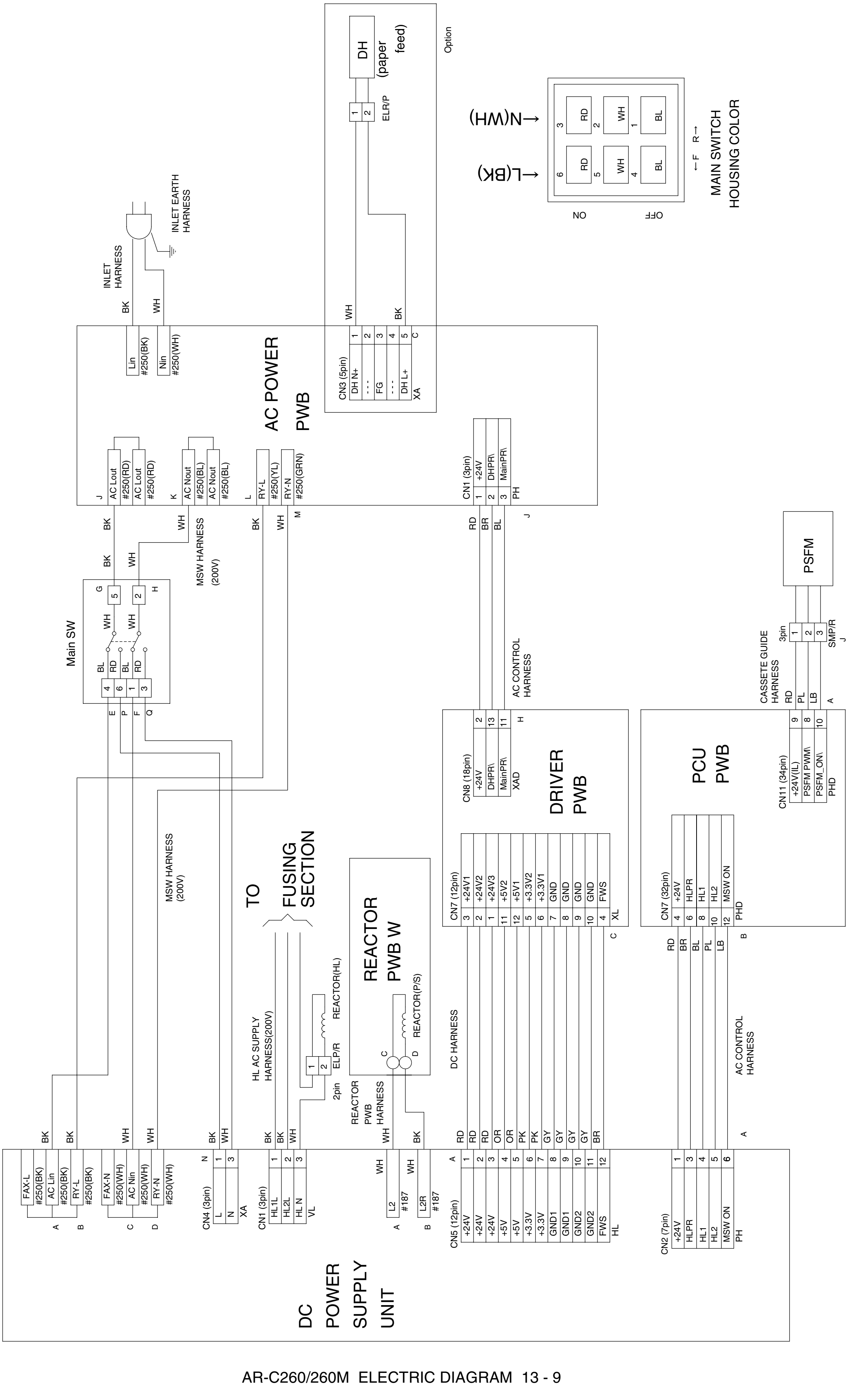

DC POWER LINE DIAGRAM
1/1
CCD PWB
MHPS
CARD READER
RADF
OCSW
LCD UN
TOUCH PANEL
ORS PD PWB
CL
LCD INVERTER PWB
OPERATION KEY PWB
INVERTER PWB
ORS LED PWB
SM
Motor DriverIC
MFP PWB
+1.8V
+2.5V
HDD PWB
HDD
PRTCFM
LED HEAD K-Y
PRINT CONTROL PWB
ICU PWB
PFM
PSM
BLUM
DMK
BTM
PSFM
GSS
CALS
CPFC1
MPFC
TRC
MTRC
MC PWB
TC PWB
HUMID SENSOR
POD1
TFD
HPOS
TFD2
BLUD
PED1
LUD1
POD2
PPD1
PFD1
MPED
MPLD1/2
TES_K-Y
PCFM
VFMP
VFMS
OSM
LUM1
LIFT UP PWB
IMAGE SENSOR PWB
PPD2 PWB UN
DV CRUM K-Y
DL K-Y
MPWS
DSWR
DSWRout
+24V(DSWR-IL)
+24V(DSWR-IL)
+24VIL
PROCON POW
PPD2_POW
+5V(DV)
DL_(K-Y)_PWR
R71
HLPR
PCU PWB
AC
DMC/M/Y
FUM
DESK
LCC
FIN
SORTER
DRIVER PWB
DSWLin
DSWLout
DSWFin
DSWL
DSWFout
DSWF
+24VIL
+24VN
+5VN
+3.3VN
1.25A
DCPS
F703 4A
F702 6.3A
F701 6.3A
+24V
+5V
+3.3V
+12V
A
B
C
D
1
2
3
4
5
6
7
8

4. ACTUAL WIRING CHART

(1) POWER SECTION (100V series)

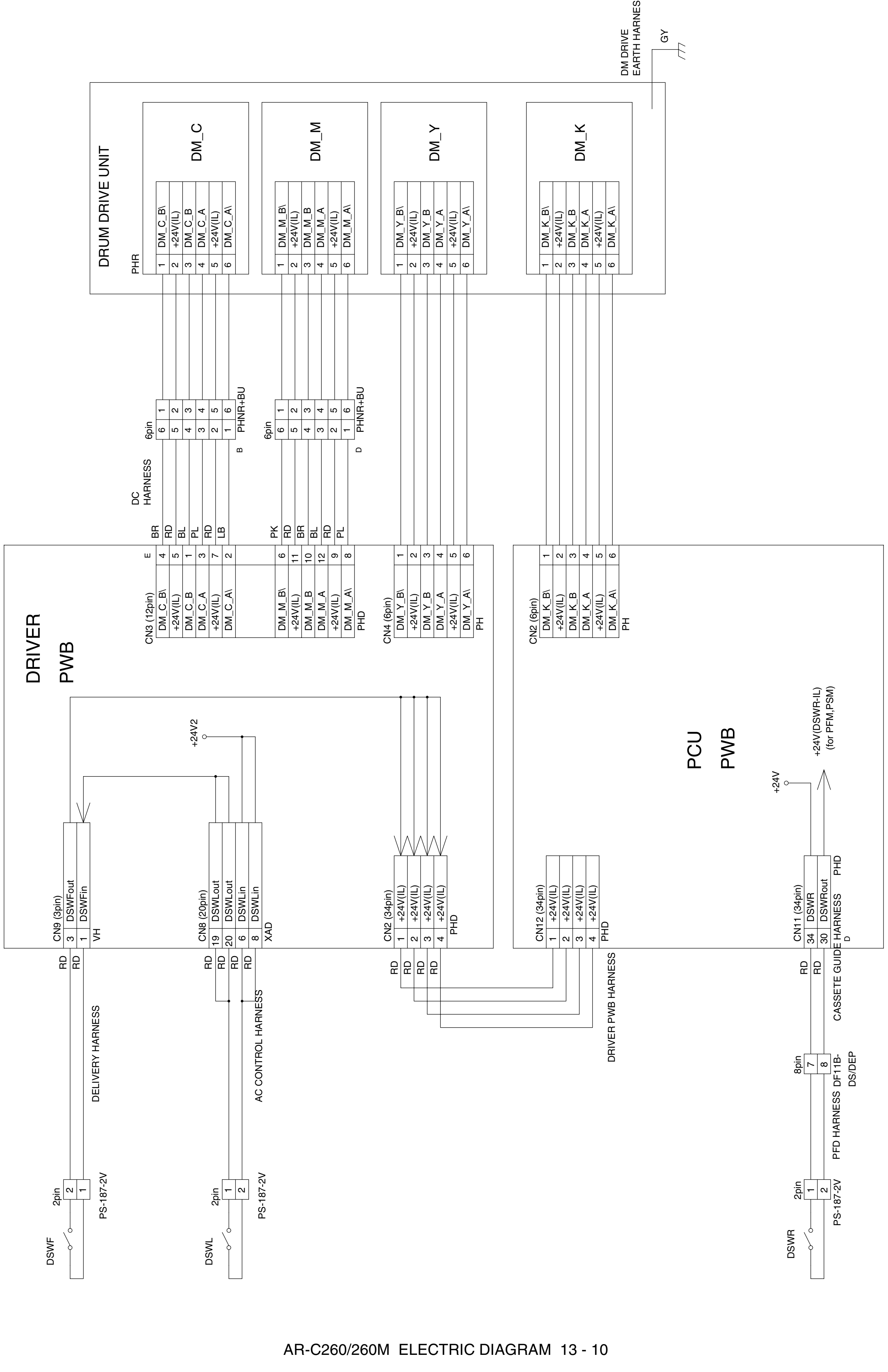

Option
DH (DESK)
DH (paper feed)
ELR/P
DRY HEATER HARNESS(EX)
FUSE
INLET HARNESS
INLET EARTH HARNESS
←N(WH)
←L(BK)
ON
OFF
←F R→
MAIN SWITCH HOUSING COLOR
AC POWER PWB
Lin #250(BK)
Nin #250(WH)
CN3 (5pin) DH N+ FG DH L+ XA
AC Lout #250(RD)
AC Nout #250(BL)
RY-L #250(YL)
RY-N #250(GRN)
CN1 (3pin) +24V DHPR\ MainPR\ PH
MSW HARNESS
Main SW
AC CONTROL HARNESS
PSFM
CASSETE GUIDE HARNESS
3pin SMP/R
DRIVER PWB
CN8 (20pin) +24V DHPR\ MainPR\ XAD
CN7 (12pin) +24V1 +24V2 +24V3 +5V2 +5V1 +3.3V2 +3.3V1 GND GND GND GND FWS XL
PCU PWB
CN11 (34pin) +24V(IL) PSFM PWM\ PSFM_ON\ PHD
CN7 (32pin) +24V HLPR HL1 HL2 MSW ON DC_CNT PHD
TO FUSING SECTION
HL AC SUPPLY HARNESS
DC HARNESS
AC CONTROL HARNESS
DC POWER SUPPLY UNIT
FAX-L #250(RD)
AC Lin #250(RD)
RY-L #250(RD)
FAX-N #250(BL)
AC Nin #250(BL)
RY-N #250(BL)
CN4 (3pin) L N XA
CN1 (3pin) HL1L HL2L HL N VL
CN5 (12pin) +24V +24V +24V +5V +5V +3.3V +3.3V GND1 GND1 GND2 GND2 FWS HL
CN2 (7pin) +24V HLPR HL1 HL2 MSW ON DC_CNT PH

(1) POWER SECTION (200V series)

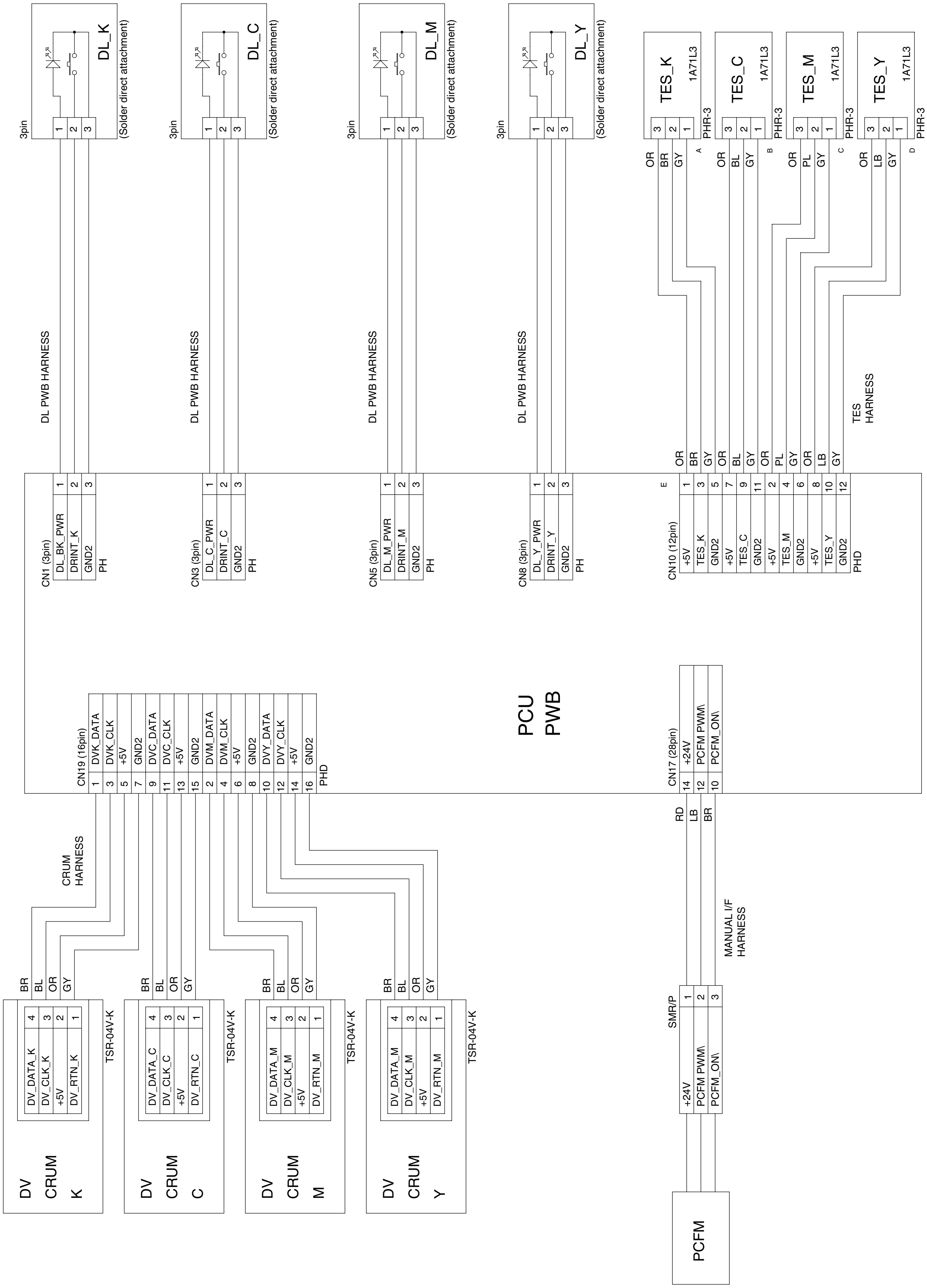


AC POWER PWB
DC POWER SUPPLY UNIT
DRIVER PWB
PCU PWB
REACTOR PWB W
PSFM
Main SW
MAIN SWITCH HOUSING COLOR
L(BK)
N(WH)
ON
OFF
← F R →
DH (paper feed)
Option
ELR/P
INLET HARNESS
INLET EARTH HARNESS
MSW HARNESS (200V)
AC CONTROL HARNESS
DC HARNESS
HL AC SUPPLY HARNESS(200V)
REACTOR PWB HARNESS
CASSETE GUIDE HARNESS
TO FUSING SECTION
REACTOR(HL)
REACTOR(P/S)
2pin
3pin
SMP/R
Lin #250(BK)
Nin #250(WH)
AC Lout #250(RD)
AC Nout #250(BL)
RY-L #250(YL)
RY-N #250(GRN)
CN3 (5pin) DH N+ FG DH L+ XA
CN1 (3pin) +24V DHPR\ MainPR\ PH
CN8 (18pin) +24V DHPR\ MainPR\ XAD
CN7 (12pin) +24V1 +24V2 +24V3 +5V2 +5V1 +3.3V2 +3.3V1 GND GND GND GND FWS XL
CN11 (34pin) +24V(IL) PSFM PWM\ PSFM_ON\ PHD
CN7 (32pin) +24V HLPR HL1 HL2 MSW ON PHD
FAX-L #250(BK) AC Lin #250(BK) RY-L #250(BK)
FAX-N #250(WH) AC Nin #250(WH) RY-N #250(WH)
CN4 (3pin) L N XA
CN1 (3pin) HL1L HL2L HL N VL
L2 #187 L2R #187
CN5 (12pin) +24V +24V +24V +5V +5V +3.3V +3.3V GND1 GND1 GND2 GND2 FWS HL
CN2 (7pin) +24V HLPR HL1 HL2 MSW ON PH

(2) DRUM DRIVE/DSW SECTION

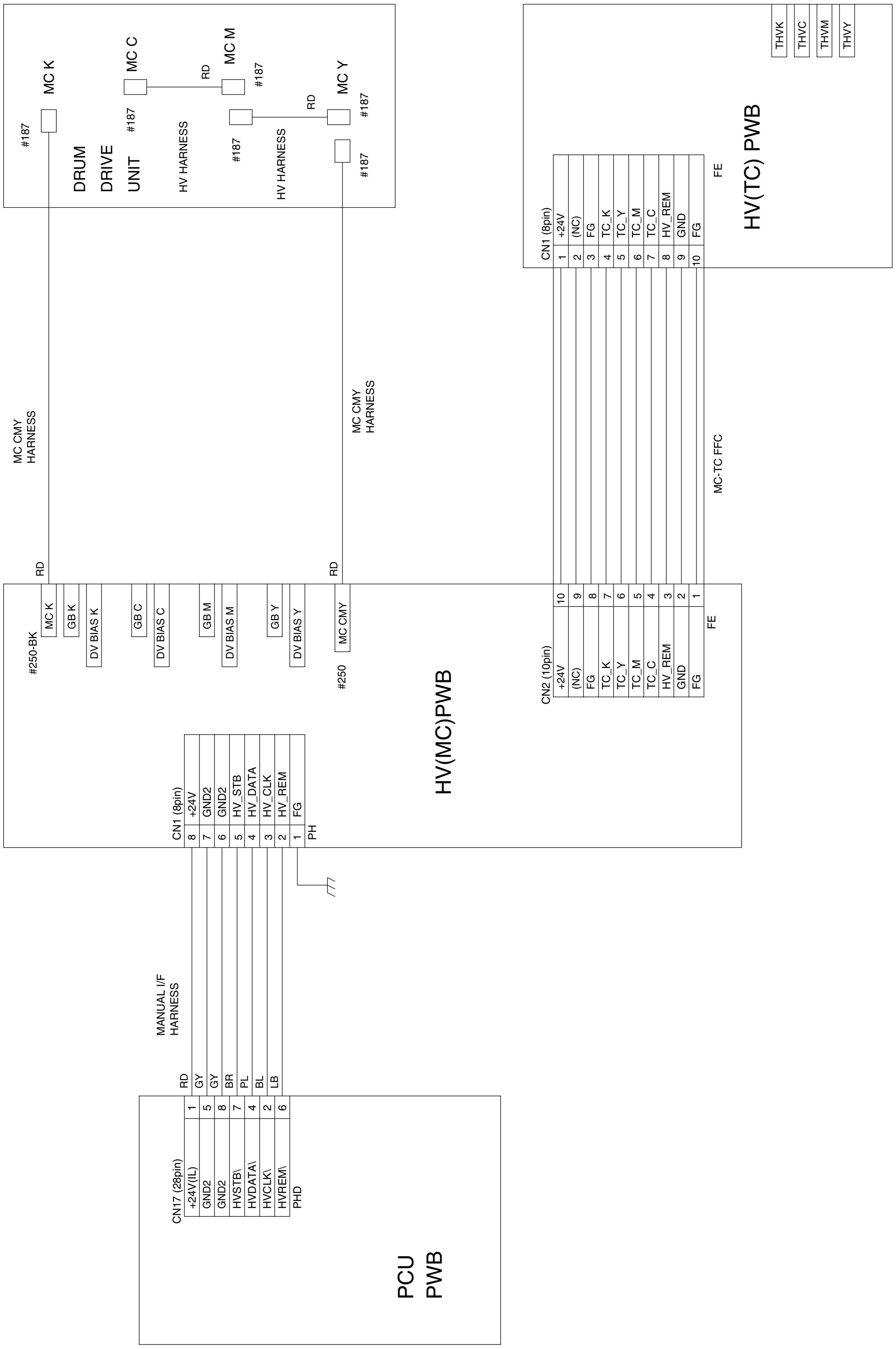

DM DRIVE EARTH HARNESS
GY
DRUM DRIVE UNIT
PHR
DM_C
DM_M
DM_Y
DM_K
1 DM_C_B\
2 +24V(IL)
3 DM_C_B
4 DM_C_A
5 +24V(IL)
6 DM_C_A\
1 DM_M_B\
2 +24V(IL)
3 DM_M_B
4 DM_M_A
5 +24V(IL)
6 DM_M_A\
1 DM_Y_B\
2 +24V(IL)
3 DM_Y_B
4 DM_Y_A
5 +24V(IL)
6 DM_Y_A\
1 DM_K_B\
2 +24V(IL)
3 DM_K_B
4 DM_K_A
5 +24V(IL)
6 DM_K_A\
DC HARNESS
6pin
PHNR+BU
B
D
BR
RD
BL
PL
RD
LB
PK
RD
BR
BL
RD
PL
E
DRIVER PWB
CN3 (12pin)
4 DM_C_B\
5 +24V(IL)
1 DM_C_B
3 DM_C_A
7 +24V(IL)
2 DM_C_A\
6 DM_M_B\
11 +24V(IL)
10 DM_M_B
12 DM_M_A
9 +24V(IL)
8 DM_M_A\
PHD
CN4 (6pin)
1 DM_Y_B\
2 +24V(IL)
3 DM_Y_B
4 DM_Y_A
5 +24V(IL)
6 DM_Y_A\
PH
CN2 (6pin)
1 DM_K_B\
2 +24V(IL)
3 DM_K_B
4 DM_K_A
5 +24V(IL)
6 DM_K_A\
PH
PCU PWB
+24V2
+24V
+24V(DSWR-IL) (for PFM,PSM)
CN9 (3pin)
3 DSWFout
1 DSWFin
VH
CN8 (20pin)
19 DSWLout
20 DSWLout
6 DSWLin
8 DSWLin
XAD
CN2 (34pin)
1 +24V(IL)
2 +24V(IL)
3 +24V(IL)
4 +24V(IL)
PHD
CN12 (34pin)
1 +24V(IL)
2 +24V(IL)
3 +24V(IL)
4 +24V(IL)
PHD
CN11 (34pin)
34 DSWR
30 DSWRout
PHD
RD
DELIVERY HARNESS
AC CONTROL HARNESS
DRIVER PWB HARNESS
CASSETE GUIDE HARNESS
D
8pin
7
8
DF11B-DS/DEP
PFD HARNESS
2pin
PS-187-2V
DSWF
DSWL
DSWR

(3) IMAGE PROCESS SECTION

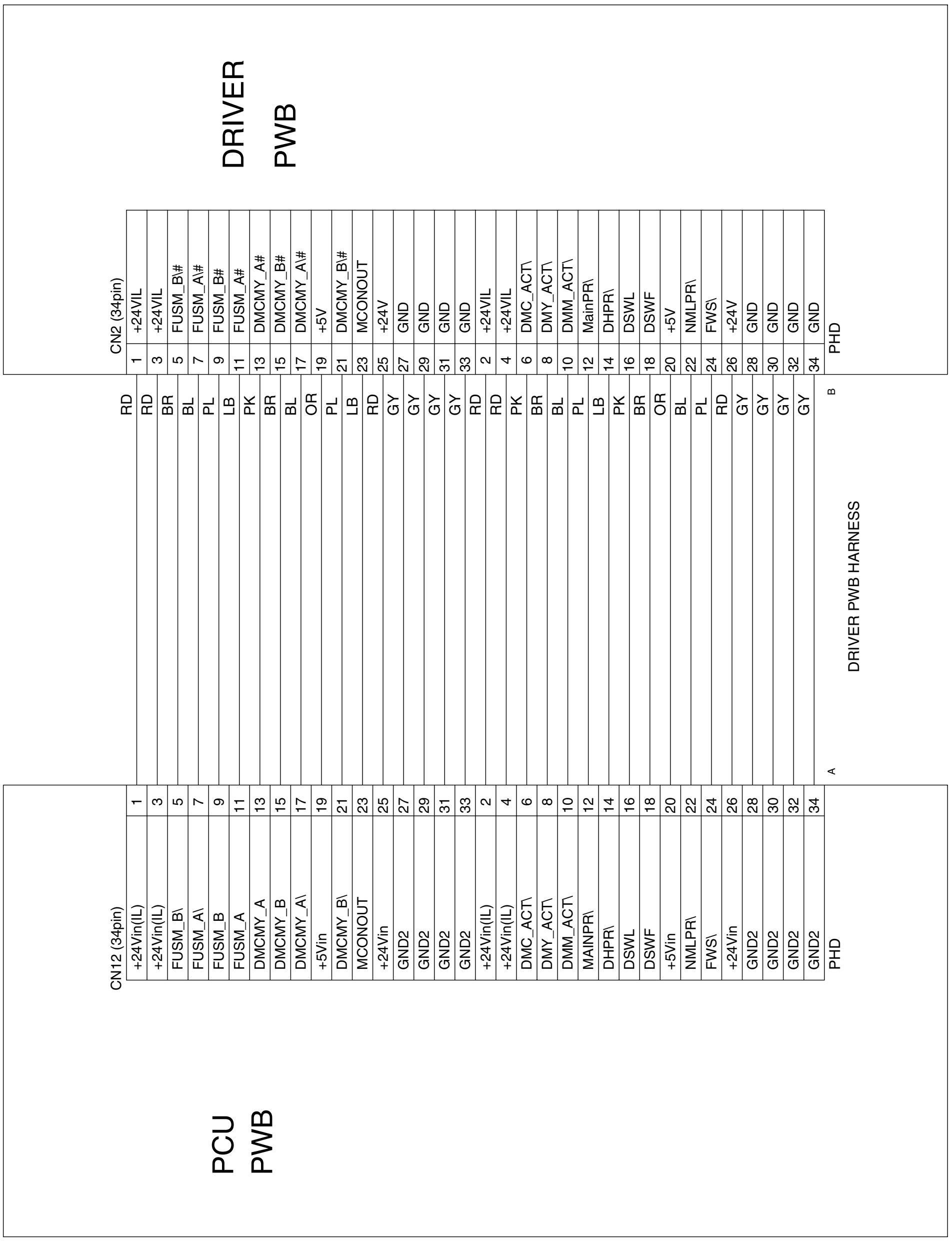


DL_K
DL_C
DL_M
DL_Y
3pin
(Solder direct attachment)
DL PWB HARNESS
TES_K
TES_C
TES_M
TES_Y
1A71L3
PHR-3
TES HARNESS
OR
BR
GY
BL
PL
LB
CN1 (3pin)
DL_BK_PWR
DRINT_K
GND2
PH
CN3 (3pin)
DL_C_PWR
DRINT_C
CN5 (3pin)
DL_M_PWR
DRINT_M
CN8 (3pin)
DL_Y_PWR
DRINT_Y
CN10 (12pin)
+5V
TES_K
TES_C
TES_M
TES_Y
PHD
PCU PWB
CN19 (16pin)
DVK_DATA
DVK_CLK
DVC_DATA
DVC_CLK
DVM_DATA
DVM_CLK
DVY_DATA
DVY_CLK
CN17 (28pin)
+24V
PCFM PWM\
PCFM_ON\
RD
CRUM HARNESS
MANUAL I/F HARNESS
SMR/P
TSR-04V-K
DV_DATA_K
DV_CLK_K
DV_RTN_K
DV_DATA_C
DV_CLK_C
DV_RTN_C
DV_DATA_M
DV_CLK_M
DV_RTN_M
DV CRUM K
DV CRUM C
DV CRUM M
DV CRUM Y
PCFM

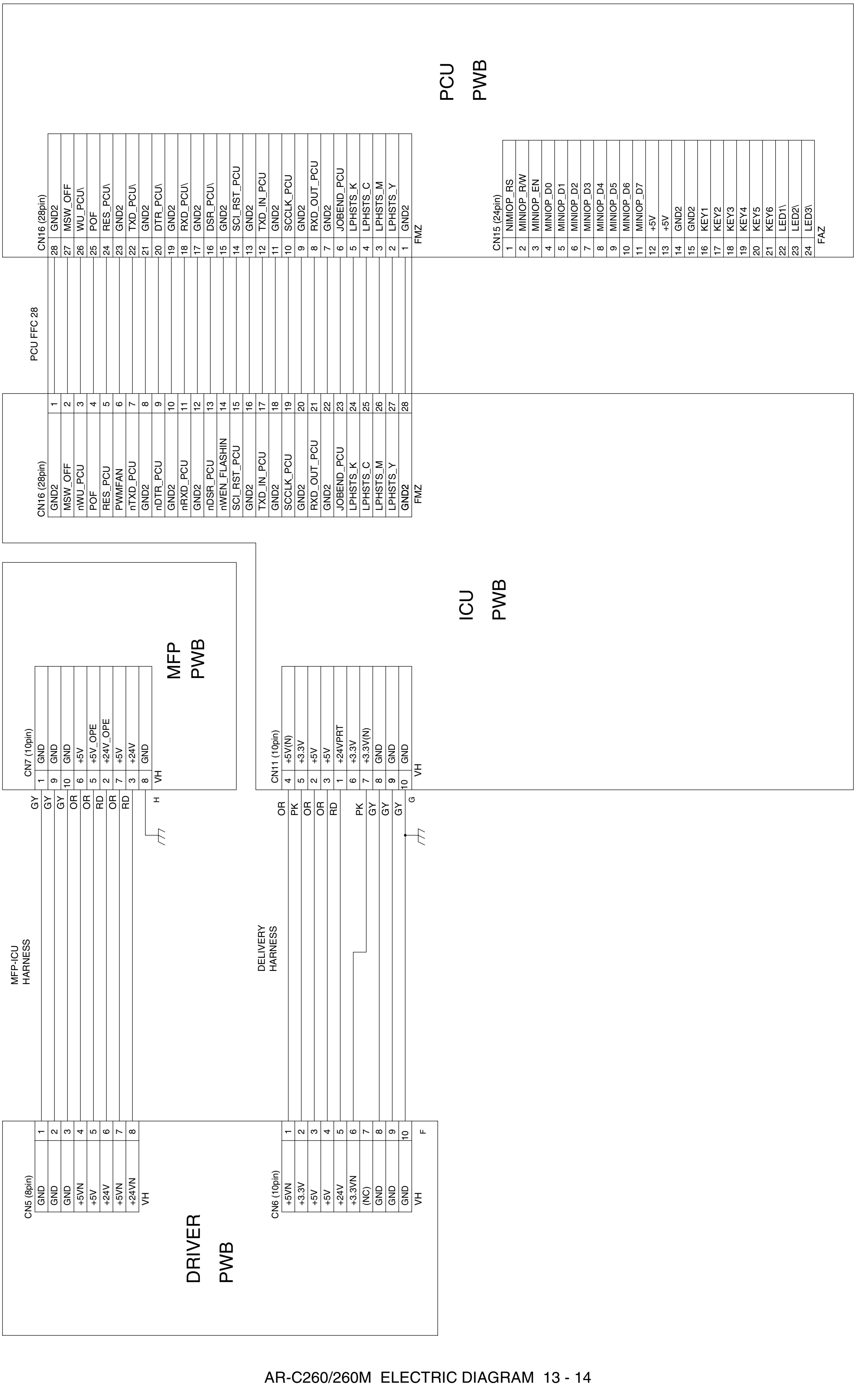
(4) HIGH VOLTAGE SECTION


DRUM
DRIVE
UNIT
MC K
MC C
MC M
MC Y
#187
RD
HV HARNESS
HV(TC) PWB
THVK
THVC
THVM
THVY
CN1 (8pin)
1 +24V
2 (NC)
3 FG
4 TC_K
5 TC_Y
6 TC_M
7 TC_C
8 HV_REM
9 GND
10 FG
FE
MC CMY
HARNESS
MC-TC FFC
#250-BK
MC K
GB K
DV BIAS K
GB C
DV BIAS C
GB M
DV BIAS M
GB Y
DV BIAS Y
MC CMY
#250
HV(MC)PWB
CN2 (10pin)
10 +24V
9 (NC)
8 FG
7 TC_K
6 TC_Y
5 TC_M
4 TC_C
3 HV_REM
2 GND
1 FG
CN1 (8pin)
8 +24V
7 GND2
6 GND2
5 HV_STB
4 HV_DATA
3 HV_CLK
2 HV_REM
1 FG
PH
MANUAL I/F
HARNESS
RD
GY
GY
BR
PL
BL
LB
CN17 (28pin)
1 +24V(IL)
5 GND2
8 GND2
7 HVSTB\
4 HVDATA\
2 HVCLK\
6 HVREM\
PHD
PCU
PWB

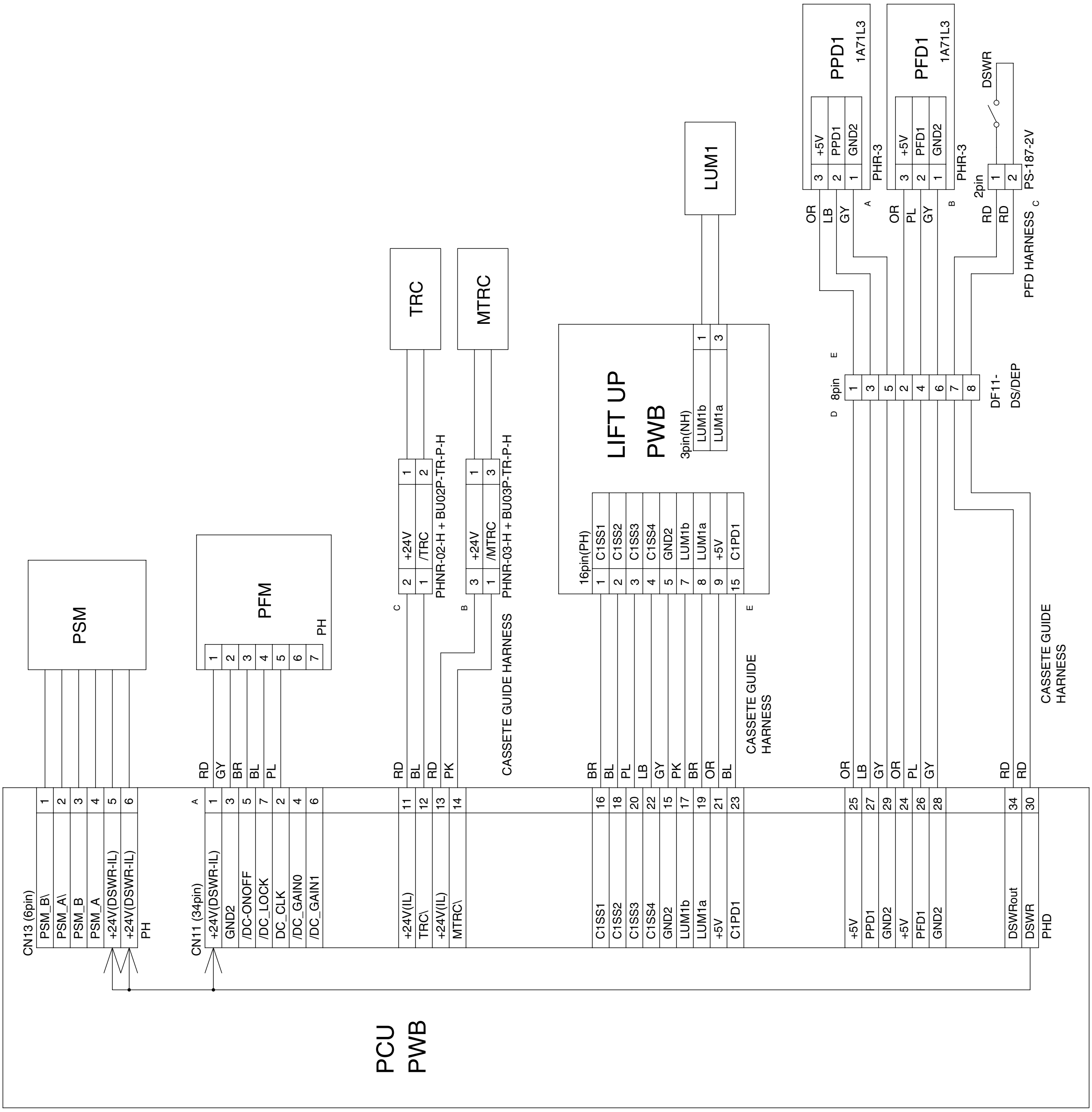
(5) MOTOR-DRIVER SECTION


DRIVER PWB
CN2 (34pin)
1 +24VIL
3 +24VIL
5 FUSM_B\#
7 FUSM_A\#
9 FUSM_B#
11 FUSM_A#
13 DMCMY_A#
15 DMCMY_B#
17 DMCMY_A\#
19 +5V
21 DMCMY_B\#
23 MCONOUT
25 +24V
27 GND
29 GND
31 GND
33 GND
2 +24VIL
4 +24VIL
6 DMC_ACT\
8 DMY_ACT\
10 DMM_ACT\
12 MainPR\
14 DHPR\
16 DSWL
18 DSWF
20 +5V
22 NMLPR\
24 FWS\
26 +24V
28 GND
30 GND
32 GND
34 GND
PHD
RD
RD
BR
BL
PL
LB
PK
BR
BL
OR
PL
LB
RD
GY
GY
GY
GY
RD
RD
PK
BR
BL
PL
LB
PK
BR
OR
BL
PL
RD
GY
GY
GY
GY
B
DRIVER PWB HARNESS
A
CN12 (34pin)
1 +24Vin(IL)
3 +24Vin(IL)
5 FUSM_B\
7 FUSM_A\
9 FUSM_B
11 FUSM_A
13 DMCMY_A
15 DMCMY_B
17 DMCMY_A\
19 +5Vin
21 DMCMY_B\
23 MCONOUT
25 +24Vin
27 GND2
29 GND2
31 GND2
33 GND2
2 +24Vin(IL)
4 +24Vin(IL)
6 DMC_ACT\
8 DMY_ACT\
10 DMM_ACT\
12 MAINPR\
14 DHPR\
16 DSWL
18 DSWF
20 +5Vin
22 NMLPR\
24 FWS\
26 +24Vin
28 GND2
30 GND2
32 GND2
34 GND2
PHD
PCU PWB

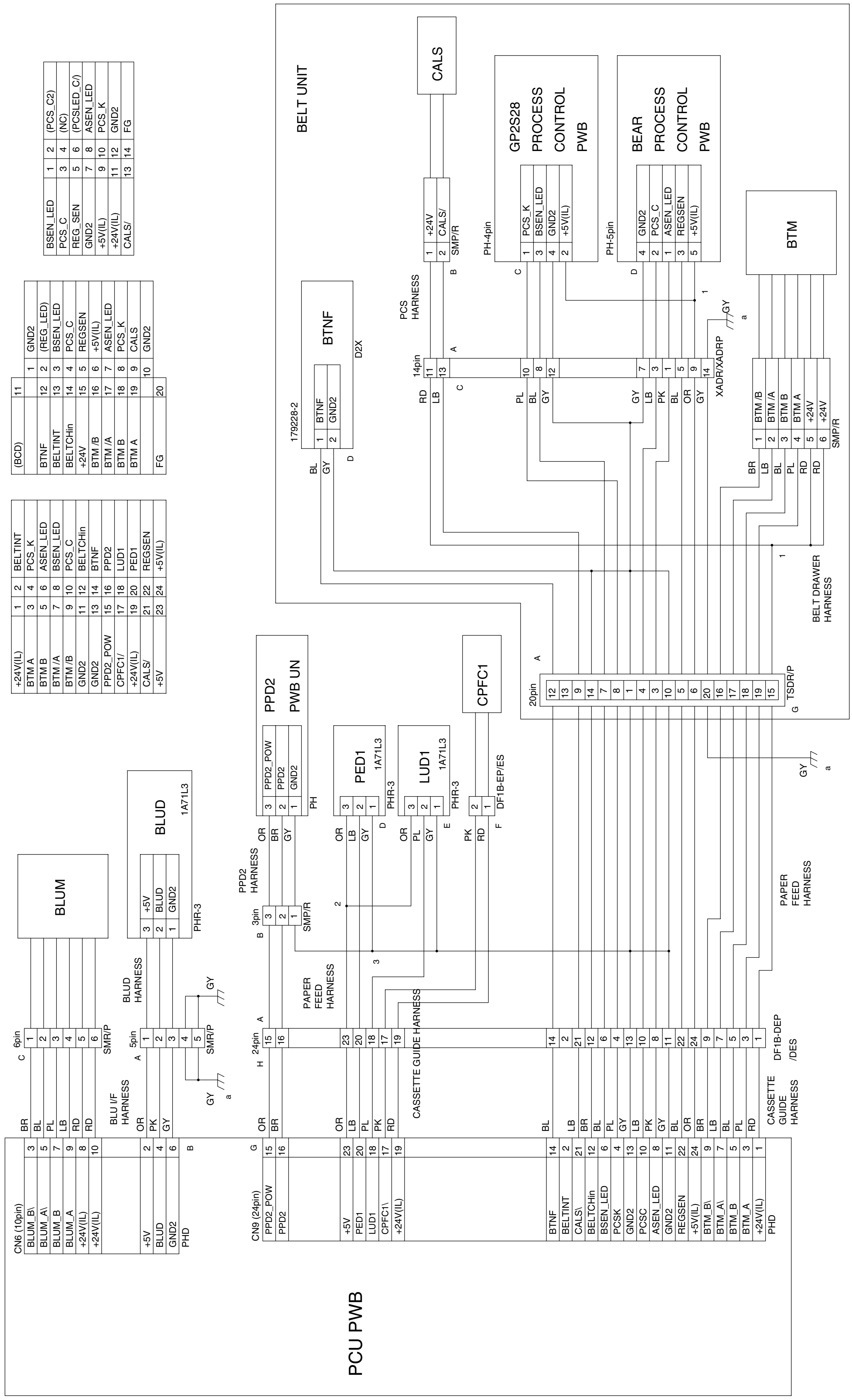
(6) PCU-ICU SECTION


PCU PWB
CN16 (28pin)
28 GND2
27 MSW_OFF
26 WU_PCU\
25 POF
24 RES_PCU\
23 GND2
22 TXD_PCU\
21 GND2
20 DTR_PCU\
19 GND2
18 RXD_PCU\
17 GND2
16 DSR_PCU\
15 GND2
14 SCI_RST_PCU
13 GND2
12 TXD_IN_PCU
11 GND2
10 SCCLK_PCU
9 GND2
8 RXD_OUT_PCU
7 GND2
6 JOBEND_PCU
5 LPHSTS_K
4 LPHSTS_C
3 LPHSTS_M
2 LPHSTS_Y
1 GND2
FMZ
CN15 (24pin)
1 NIMIOP_RS
2 MINIOP_R/W
3 MINIOP_EN
4 MINIOP_D0
5 MINIOP_D1
6 MINIOP_D2
7 MINIOP_D3
8 MINIOP_D4
9 MINIOP_D5
10 MINIOP_D6
11 MINIOP_D7
12 +5V
13 +5V
14 GND2
15 GND2
16 KEY1
17 KEY2
18 KEY3
19 KEY4
20 KEY5
21 KEY6
22 LED1\
23 LED2\
24 LED3\
FAZ
PCU FFC 28
ICU PWB
CN16 (28pin)
1 GND2
2 MSW_OFF
3 nWU_PCU
4 POF
5 RES_PCU
6 PWMFAN
7 nTXD_PCU
8 GND2
9 nDTR_PCU
10 GND2
11 nRXD_PCU
12 GND2
13 nDSR_PCU
14 nWEN_FLASHIN
15 SCI_RST_PCU
16 GND2
17 TXD_IN_PCU
18 GND2
19 SCCLK_PCU
20 GND2
21 RXD_OUT_PCU
22 GND2
23 JOBEND_PCU
24 LPHSTS_K
25 LPHSTS_C
26 LPHSTS_M
27 LPHSTS_Y
28 GND2
FMZ
MFP PWB
CN7 (10pin)
1 GND
9 GND
10 GND
6 +5V
5 +5V_OPE
2 +24V_OPE
7 +5V
3 +24V
8 GND
VH
GY
GY
GY
OR
OR
RD
OR
RD
H
MFP-ICU HARNESS
CN11 (10pin)
4 +5V(N)
5 +3.3V
2 +5V
3 +5V
1 +24VPRT
6 +3.3V
7 +3.3V(N)
8 GND
9 GND
10 GND
VH
OR
PK
OR
OR
RD
PK
GY
GY
GY
G
DELIVERY HARNESS
DRIVER PWB
CN5 (8pin)
1 GND
2 GND
3 GND
4 +5VN
5 +5V
6 +24V
7 +5VN
8 +24VN
VH
CN6 (10pin)
1 +5VN
2 +3.3V
3 +5V
4 +5V
5 +24V
6 +3.3VN
7 (NC)
8 GND
9 GND
10 GND
VH
F

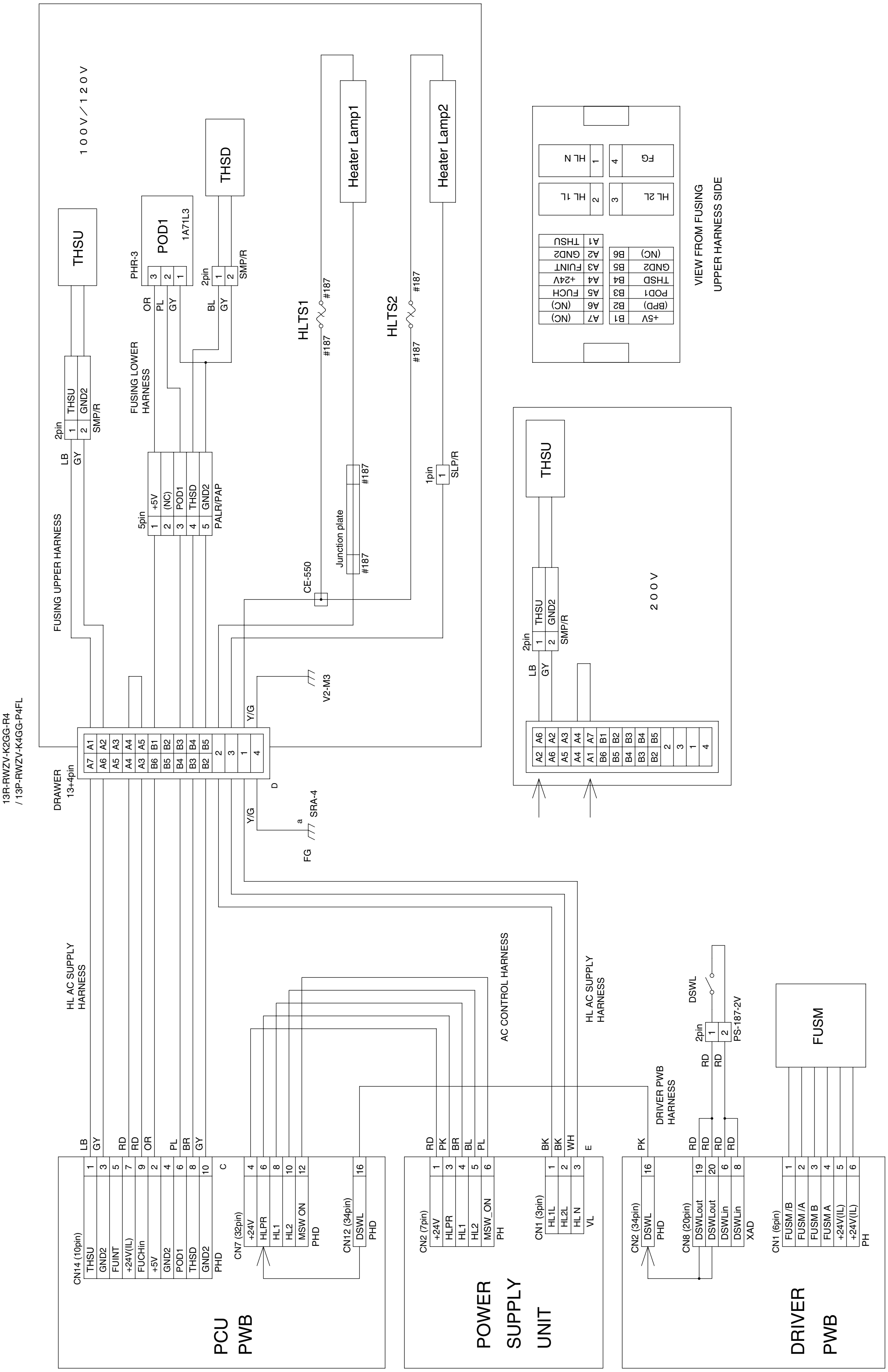
(7) PAPER TRANSPORT SECTION


PSM
PFM
PH
TRC
MTRC
LIFT UP PWB
LUM1
PPD1
1A71L3
PFD1
1A71L3
DSWR
PS-187-2V
PFD HARNESS
PHR-3
2pin
8pin
DF11-DS/DEP
3pin(NH)
LUM1b
LUM1a
16pin(PH)
C1SS1
C1SS2
C1SS3
C1SS4
GND2
LUM1b
LUM1a
+5V
C1PD1
PHNR-02-H + BU02P-TR-P-H
PHNR-03-H + BU03P-TR-P-H
+24V
/TRC
/MTRC
CASSETE GUIDE HARNESS
CASSETE GUIDE HARNESS
CASSETE GUIDE HARNESS
+5V
PPD1
GND2
+5V
PFD1
GND2
CN13 (6pin)
PSM_B\
PSM_A\
PSM_B
PSM_A
+24V(DSWR-IL)
+24V(DSWR-IL)
PH
CN11 (34pin)
+24V(DSWR-IL)
GND2
/DC-ONOFF
/DC_LOCK
DC_CLK
/DC_GAIN0
/DC_GAIN1
+24V(IL)
TRC\
+24V(IL)
MTRC\
C1SS1
C1SS2
C1SS3
C1SS4
GND2
LUM1b
LUM1a
+5V
C1PD1
+5V
PPD1
GND2
+5V
PFD1
GND2
DSWRout
DSWR
PHD
RD
GY
BR
BL
PL
PK
LB
OR
PCU PWB

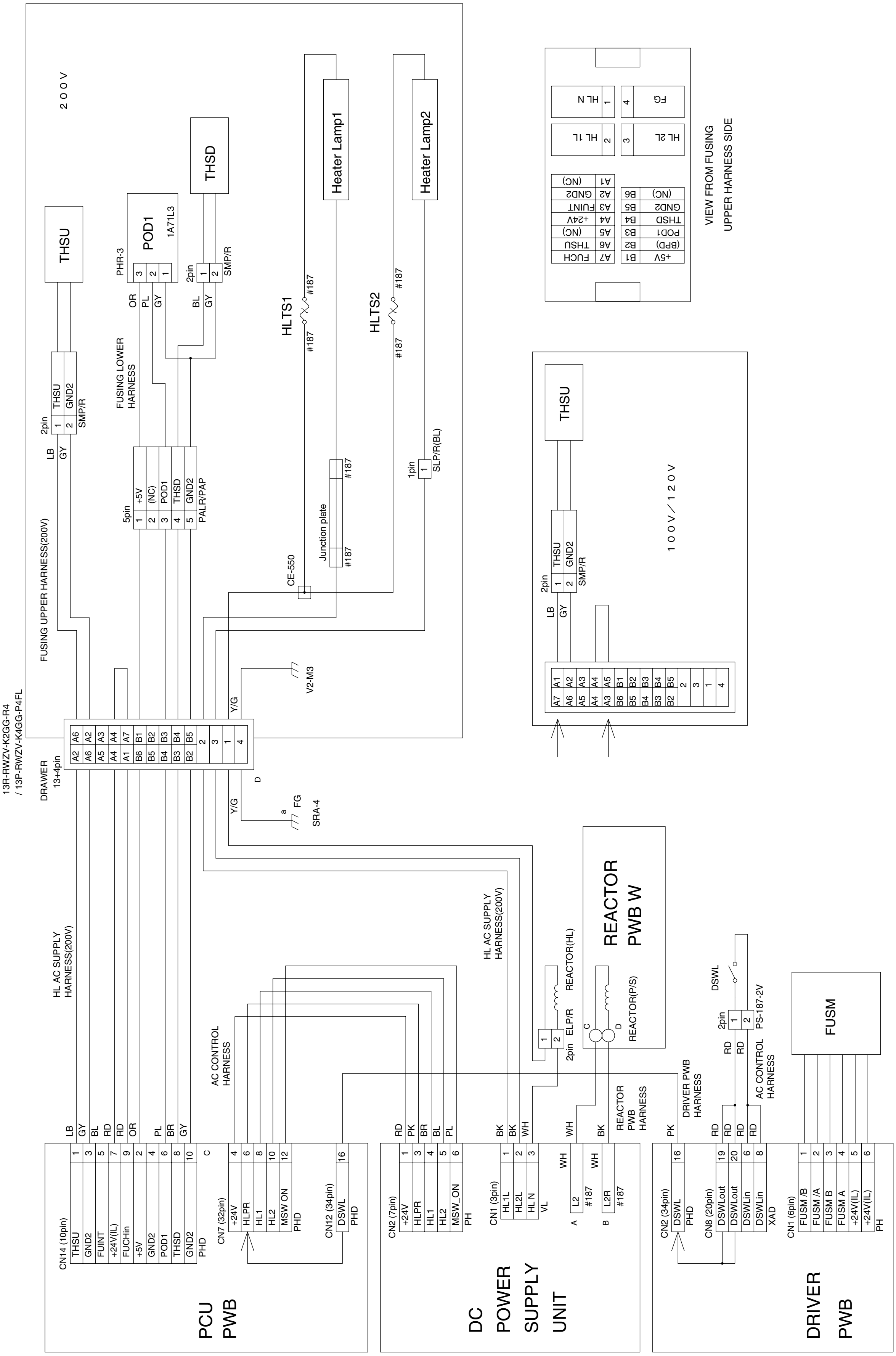
(8) TRANSFER BELT SECTION


BELT UNIT
CALS
GP2S28 PROCESS CONTROL PWB
BEAR PROCESS CONTROL PWB
BTM
BTNF
PCS HARNESS
BELT DRAWER HARNESS
XADR/XADRP
TSDR/P
PPD2 PWB UN
PED1
LUD1
CPFC1
BLUM
BLUD
BLUD HARNESS
BLU I/F HARNESS
PPD2 HARNESS
PAPER FEED HARNESS
CASSETTE GUIDE HARNESS
DF1B-DEP /DES
PCU PWB
CN6 (10pin)
CN9 (24pin)

(9) FUSING SECTION (100V series)

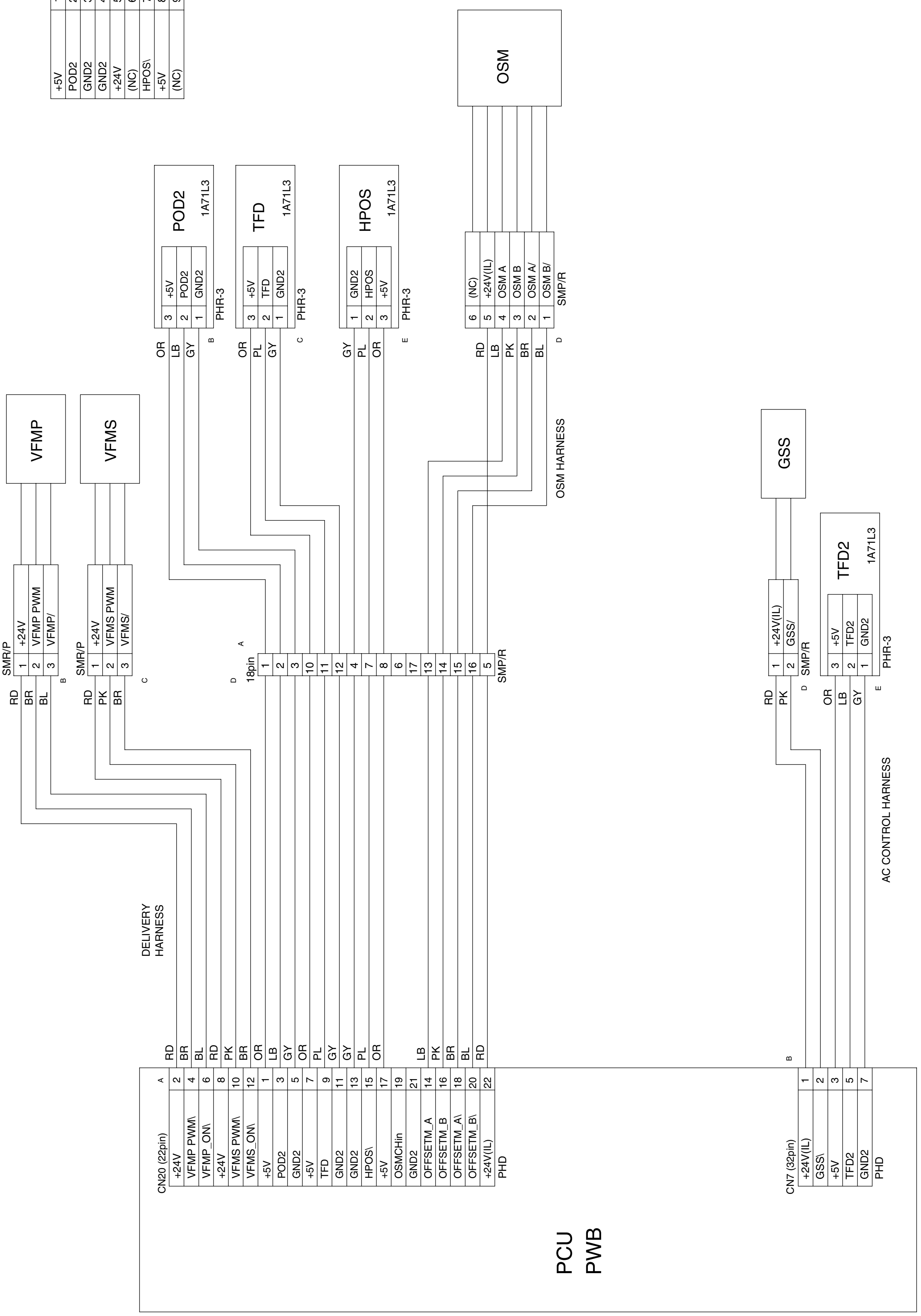

100V／120V
200V
THSU
POD1
1A71L3
PHR-3
THSD
Heater Lamp1
Heater Lamp2
HLTS1
HLTS2
#187
SMP/R
SLP/R
PALR/PAP
FUSING UPPER HARNESS
FUSING LOWER HARNESS
Junction plate
CE-550
V2-M3
SRA-4
FG
Y/G
DRAWER 13+4pin
13R-RWZV-K2GG-R4 / 13P-RWZV-K4GG-P4FL
HL AC SUPPLY HARNESS
AC CONTROL HARNESS
DRIVER PWB HARNESS
DSWL
PS-187-2V
FUSM
VIEW FROM FUSING UPPER HARNESS SIDE
HL N
HL 1L
HL 2L
CN14 (10pin)
THSU
GND2
FUINT
+24V(IL)
FUCHin
+5V
POD1
THSD
PHD
CN7 (32pin)
+24V
HLPR
HL1
HL2
MSW ON
CN12 (34pin)
DSWL
CN2 (7pin)
MSW_ON
PH
CN1 (3pin)
HL1L
HL2L
VL
CN2 (34pin)
CN8 (20pin)
DSWLout
DSWLin
XAD
CN1 (6pin)
FUSM /B
FUSM /A
FUSM B
FUSM A
+24V(IL)
PCU PWB
POWER SUPPLY UNIT
DRIVER PWB

(9) FUSING SECTION (200V series)

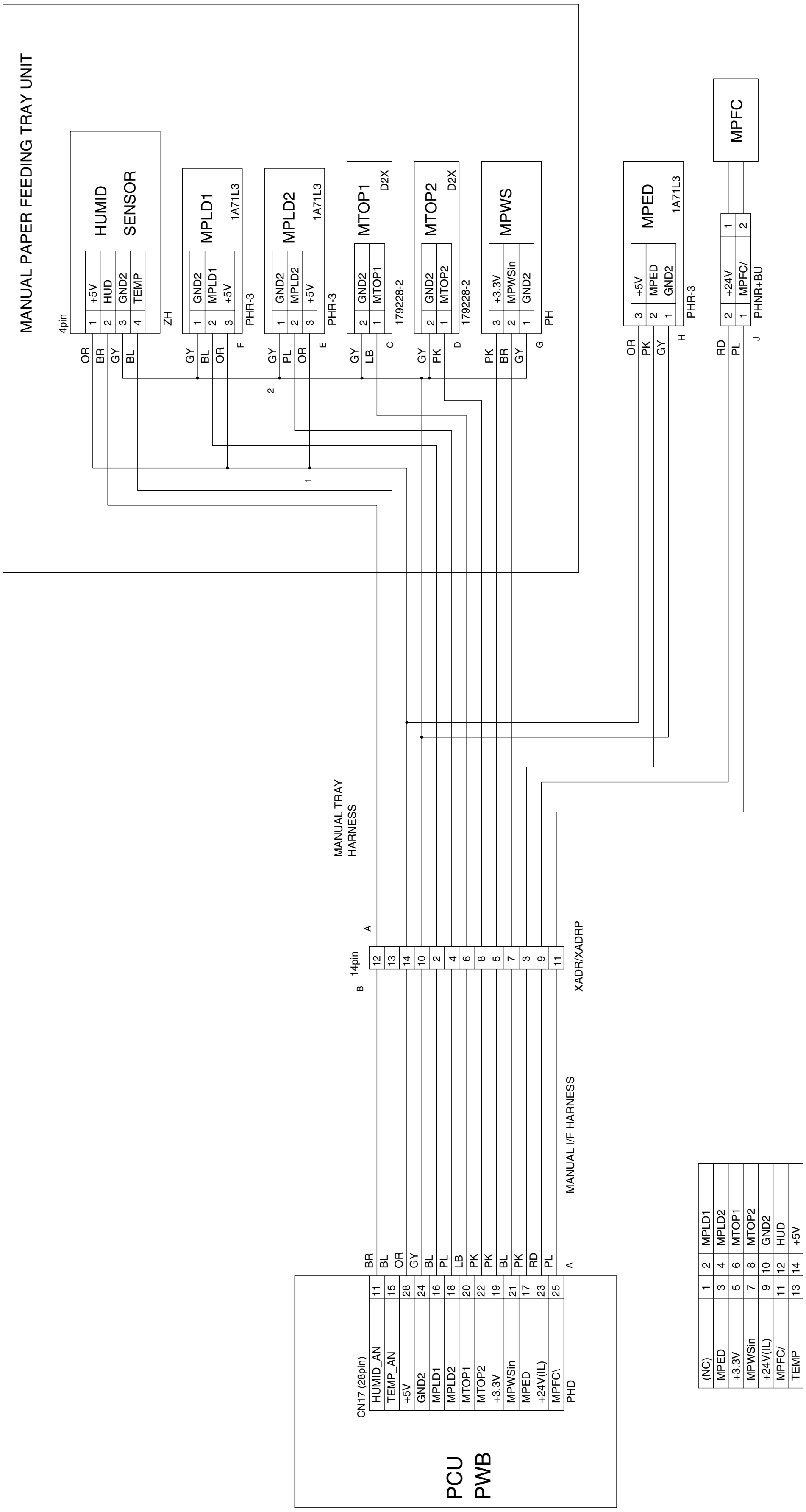

200V
THSU
POD1
1A71L3
PHR-3
THSD
SMP/R
Heater Lamp1
Heater Lamp2
HLTS1
HLTS2
#187
FUSING LOWER HARNESS
FUSING UPPER HARNESS(200V)
5pin
+5V
(NC)
POD1
THSD
GND2
PALR/PAP
Junction plate
CE-550
1pin
SLP/R(BL)
V2-M3
Y/G
DRAWER 13+4pin
13R-RWZV-K2GG-R4 / 13P-RWZV-K4GG-P4FL
SRA-4
FG
VIEW FROM FUSING UPPER HARNESS SIDE
HL N
HL 1L
HL 2L
FG
FUCH
FUINT
+24V
(NC)
(BPD)
100V／120V
HL AC SUPPLY HARNESS(200V)
AC CONTROL HARNESS
REACTOR PWB W
REACTOR(HL)
REACTOR(P/S)
ELP/R
DSWL
PS-187-2V
FUSM
DRIVER PWB HARNESS
REACTOR PWB HARNESS
CN14 (10pin)
CN7 (32pin)
CN12 (34pin)
PCU PWB
CN2 (7pin)
CN1 (3pin)
DC POWER SUPPLY UNIT
CN2 (34pin)
CN8 (20pin)
CN1 (6pin)
DRIVER PWB
THSU
GND2
FUINT
+24V(IL)
FUCHin
+5V
POD1
THSD
PHD
HLPR
HL1
HL2
MSW ON
DSWL
MSW_ON
PH
HL1L
HL2L
HL N
VL
L2
L2R
DSWLout
DSWLin
XAD
FUSM /B
FUSM /A
FUSM B
FUSM A
LB
GY
BL
RD
OR
PL
BR
PK
BK
WH

(10) PAPER EXIT SECTION

+5V	1	10	+5V
POD2	2	11	TFD
GND2	3	12	GND2
GND2	4	13	OSM A
+24V	5	14	OSM B
(NC)	6	15	OSM A\
HPOS\	7	16	OSM B\
+5V	8	17	(NC)
(NC)	9	18	(NC)

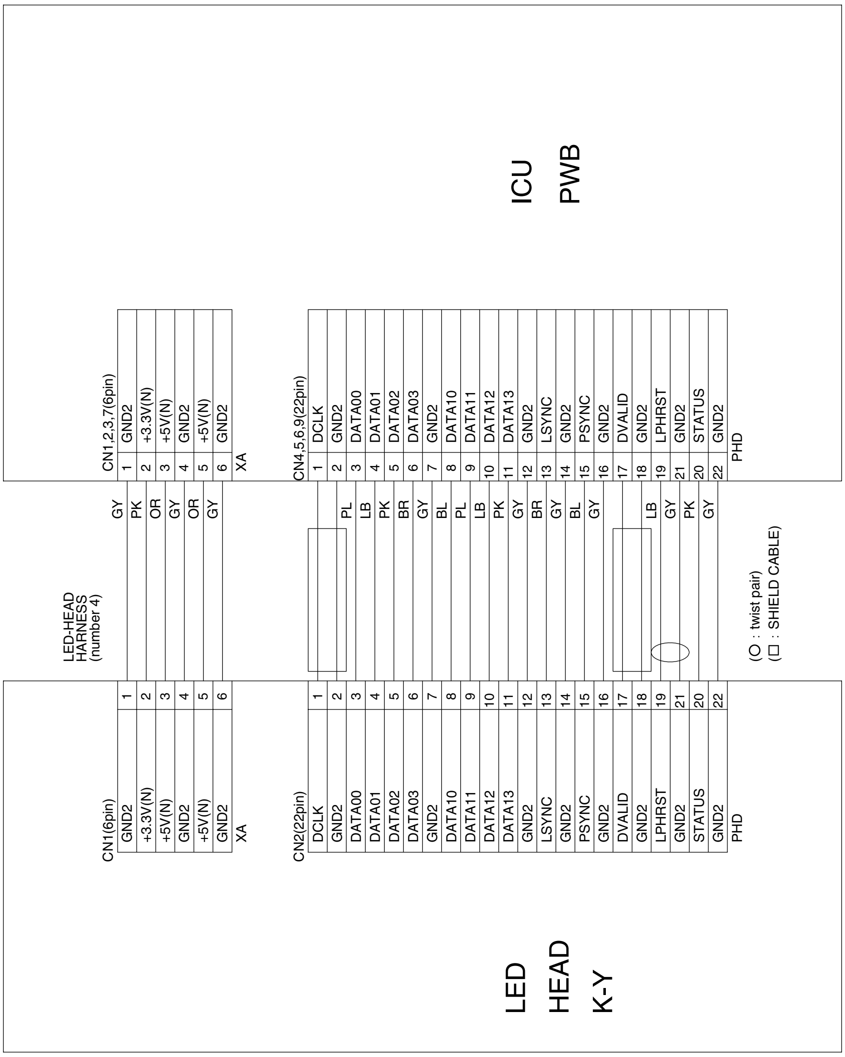

OSM
POD2
1A71L3
PHR-3
+5V
POD2
GND2
TFD
1A71L3
PHR-3
HPOS
1A71L3
GND2
HPOS
+5V
PHR-3
(NC)
+24V(IL)
OSM A
OSM B
OSM A/
OSM B/
SMP/R
OSM HARNESS
VFMP
VFMS
SMR/P
+24V
VFMP PWM
VFMP/
SMR/P
+24V
VFMS PWM
VFMS/
18pin
SMP/R
GSS
+24V(IL)
GSS/
SMP/R
TFD2
1A71L3
+5V
TFD2
GND2
PHR-3
DELIVERY HARNESS
AC CONTROL HARNESS
CN20 (22pin)
+24V
VFMP PWM\
VFMP_ON\
+24V
VFMS PWM\
VFMS_ON\
+5V
POD2
+5V
TFD
GND2
GND2
HPOS\
+5V
OSMCHlin
GND2
OFFSETM_A
OFFSETM_B
OFFSETM_A\
OFFSETM_B\
+24V(IL)
PHD
CN7 (32pin)
+24V(IL)
GSS\
+5V
TFD2
GND2
PHD
PCU
PWB

(11) MANUAL PAPER FEED SECTION

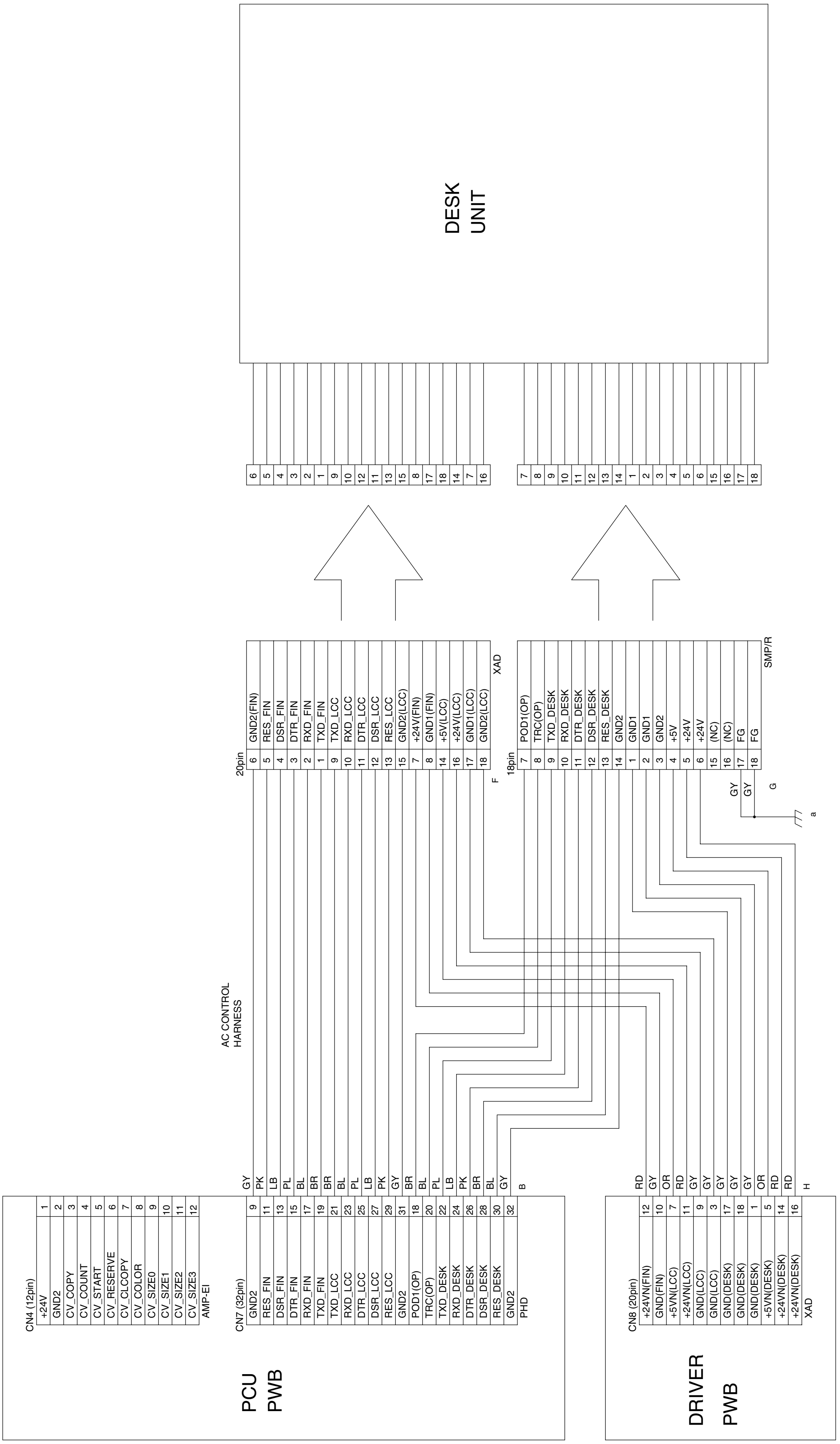

MANUAL PAPER FEEDING TRAY UNIT
HUMID SENSOR
4pin
1 +5V
2 HUD
3 GND2
4 TEMP
ZH
OR BR GY BL
MPLD1
1A71L3
1 GND2
2 MPLD1
3 +5V
PHR-3
F
GY BL OR
MPLD2
1A71L3
1 GND2
2 MPLD2
3 +5V
PHR-3
E
GY PL OR
MTOP1
D2X
2 GND2
1 MTOP1
179228-2
C
GY LB
MTOP2
D2X
2 GND2
1 MTOP2
179228-2
D
GY PK
MPWS
3 +3.3V
2 MPWSin
1 GND2
PH
G
PK BR GY
MPED
1A71L3
3 +5V
2 MPED
1 GND2
PHR-3
H
OR PK GY
MPFC
2 +24V
1 MPFC/
1
2
PHNR+BU
J
RD PL
2
1
MANUAL TRAY HARNESS
A
B
14pin
12 13 14 10 2 4 6 8 5 7 3 9 11
XADR/XADRP
MANUAL I/F HARNESS
BR BL OR GY BL PL LB PK PK BL PK RD PL
A
PCU PWB
CN17 (28pin)
HUMID_AN 11
TEMP_AN 15
+5V 28
GND2 24
MPLD1 16
MPLD2 18
MTOP1 20
MTOP2 22
+3.3V 19
MPWSin 21
MPED 17
+24V(IL) 23
MPFC\ 25
PHD

(NC)	1	2	MPLD1
MPED	3	4	MPLD2
+3.3V	5	6	MTOP1
MPWSin	7	8	MTOP2
+24V(IL)	9	10	GND2
MPFC/	11	12	HUD
TEMP	13	14	+5V

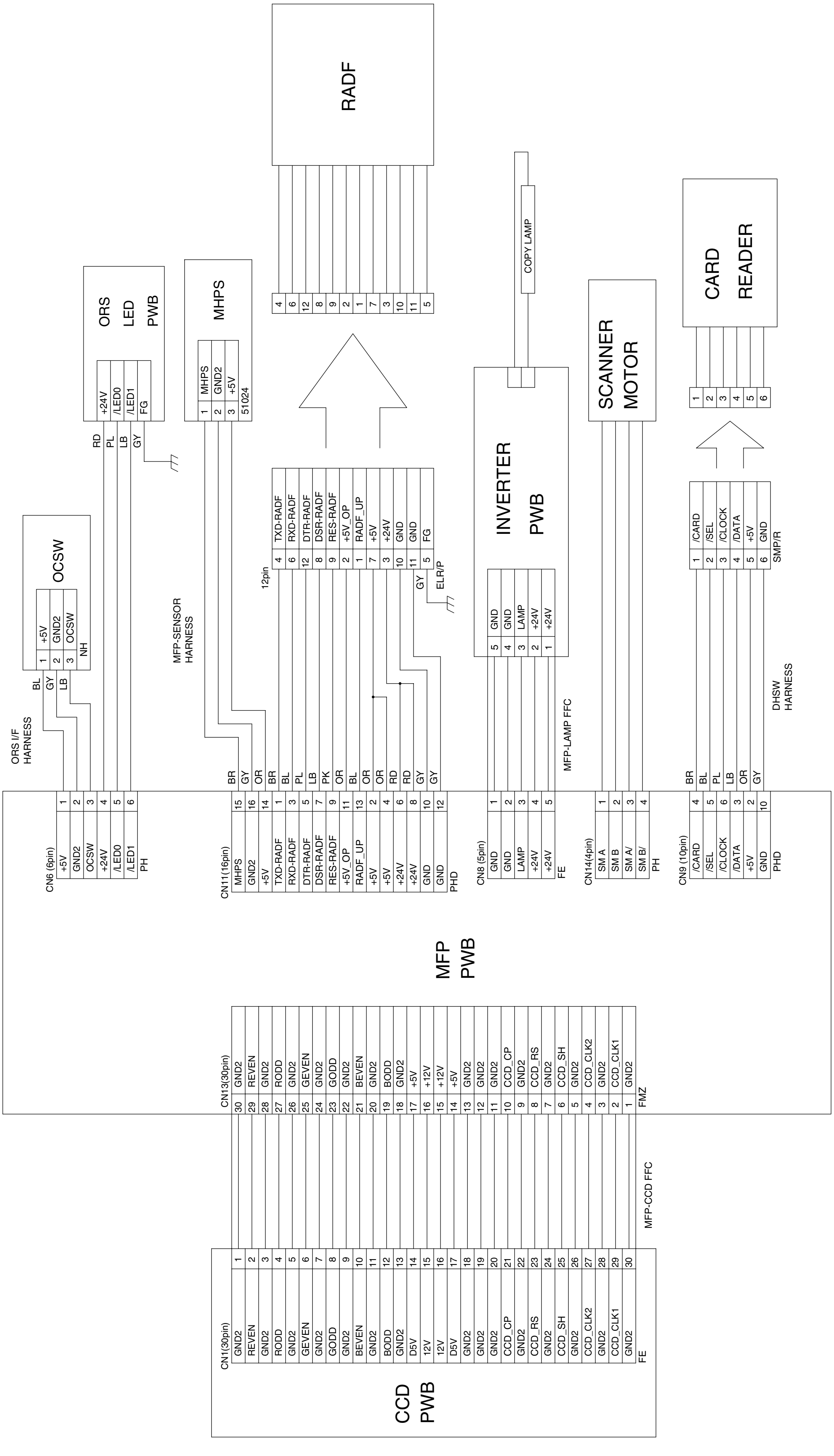
(12) LED-HEAD SECTION


ICU
PWB
CN1,2,3,7(6pin)
1 GND2
2 +3.3V(N)
3 +5V(N)
4 GND2
5 +5V(N)
6 GND2
XA
CN4,5,6,9(22pin)
1 DCLK
2 GND2
3 DATA00
4 DATA01
5 DATA02
6 DATA03
7 GND2
8 DATA10
9 DATA11
10 DATA12
11 DATA13
12 GND2
13 LSYNC
14 GND2
15 PSYNC
16 GND2
17 DVALID
18 GND2
19 LPHRST
21 GND2
20 STATUS
22 GND2
PHD
GY
PK
OR
GY
OR
GY
PL
LB
PK
BR
GY
BL
PL
LB
PK
GY
BR
GY
BL
GY
LB
GY
PK
GY
LED-HEAD
HARNESS
(number 4)
(○ : twist pair)
(□ : SHIELD CABLE)
CN1(6pin)
1 GND2
2 +3.3V(N)
3 +5V(N)
4 GND2
5 +5V(N)
6 GND2
XA
CN2(22pin)
1 DCLK
2 GND2
3 DATA00
4 DATA01
5 DATA02
6 DATA03
7 GND2
8 DATA10
9 DATA11
10 DATA12
11 DATA13
12 GND2
13 LSYNC
14 GND2
15 PSYNC
16 GND2
17 DVALID
18 GND2
19 LPHRST
21 GND2
20 STATUS
22 GND2
PHD
LED
HEAD
K-Y

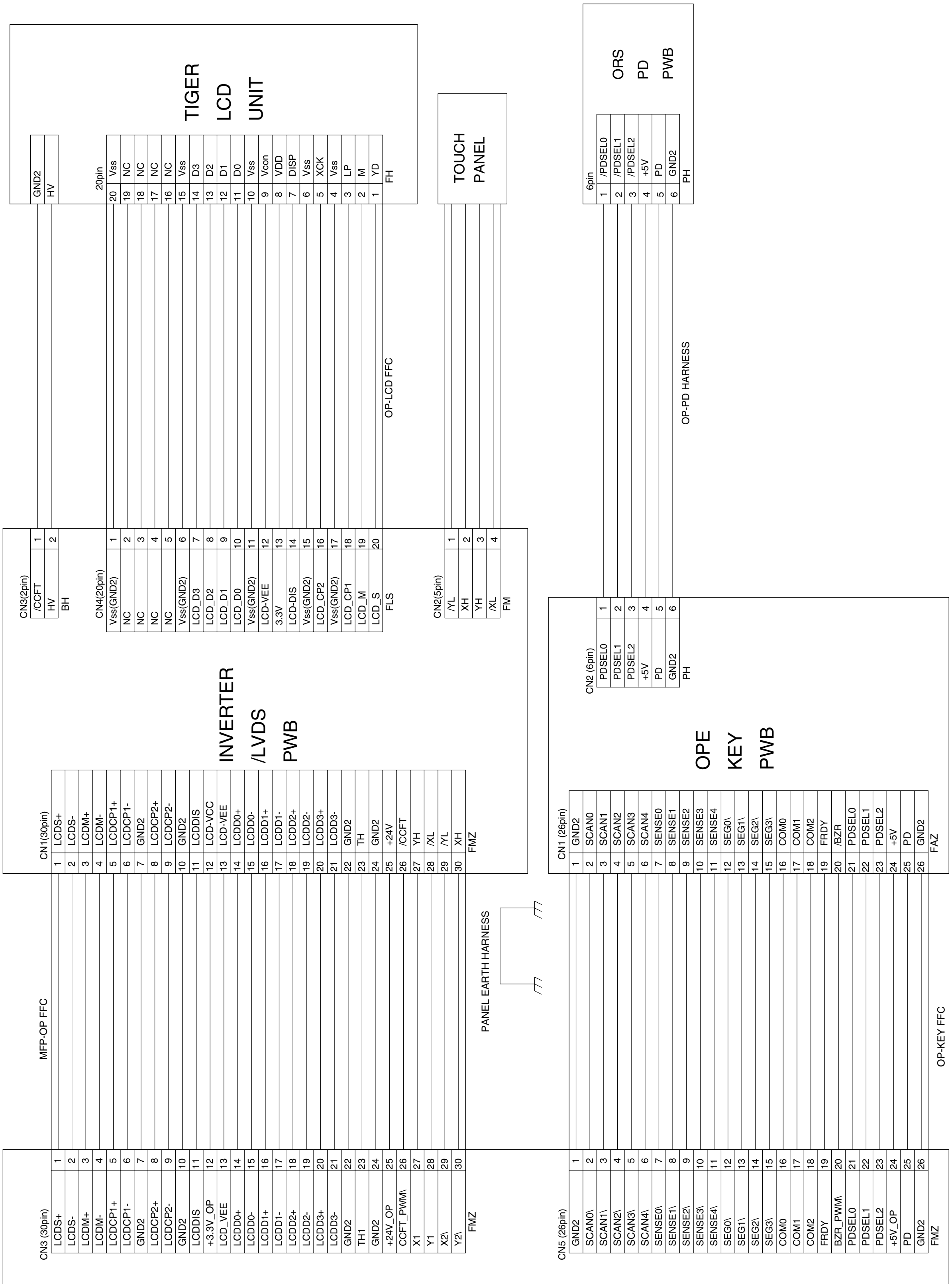
(13) DESK SECTION


DESK UNIT
6 5 4 3 2 1 9 10 12 11 13 15 8 17 18 14 7 16
7 8 9 10 11 12 13 14 1 2 3 4 5 6 15 16 17 18
20pin
6 GND2(FIN)
5 RES_FIN
4 DSR_FIN
3 DTR_FIN
2 RXD_FIN
1 TXD_FIN
9 TXD_LCC
10 RXD_LCC
11 DTR_LCC
12 DSR_LCC
13 RES_LCC
15 GND2(LCC)
7 +24V(FIN)
8 GND1(FIN)
14 +5V(LCC)
16 +24V(LCC)
17 GND1(LCC)
18 GND2(LCC)
XAD
F
18pin
7 POD1(OP)
8 TRC(OP)
9 TXD_DESK
10 RXD_DESK
11 DTR_DESK
12 DSR_DESK
13 RES_DESK
14 GND2
1 GND1
2 GND1
3 GND2
4 +5V
5 +24V
6 +24V
15 (NC)
16 (NC)
17 FG
18 FG
SMP/R
GY
GY
G
a
AC CONTROL HARNESS
GY PK LB PL BL BR BR BL PL LB PK GY BR BL PL LB PK BR BL GY
B
RD GY OR RD GY GY GY GY GY OR RD RD
H
CN4 (12pin)
1 +24V
2 GND2
3 CV_COPY
4 CV_COUNT
5 CV_START
6 CV_RESERVE
7 CV_CLCOPY
8 CV_COLOR
9 CV_SIZE0
10 CV_SIZE1
11 CV_SIZE2
12 CV_SIZE3
AMP-EI
CN7 (32pin)
9 GND2
11 RES_FIN
13 DSR_FIN
15 DTR_FIN
17 RXD_FIN
19 TXD_FIN
21 TXD_LCC
23 RXD_LCC
25 DTR_LCC
27 DSR_LCC
29 RES_LCC
31 GND2
18 POD1(OP)
20 TRC(OP)
22 TXD_DESK
24 RXD_DESK
26 DTR_DESK
28 DSR_DESK
30 RES_DESK
32 GND2
PHD
PCU PWB
CN8 (20pin)
12 +24VN(FIN)
10 GND(FIN)
7 +5VN(LCC)
11 +24VN(LCC)
9 GND(LCC)
3 GND(LCC)
17 GND(DESK)
18 GND(DESK)
1 GND(DESK)
5 +5VN(DESK)
14 +24VN(DESK)
16 +24VN(DESK)
XAD
DRIVER PWB

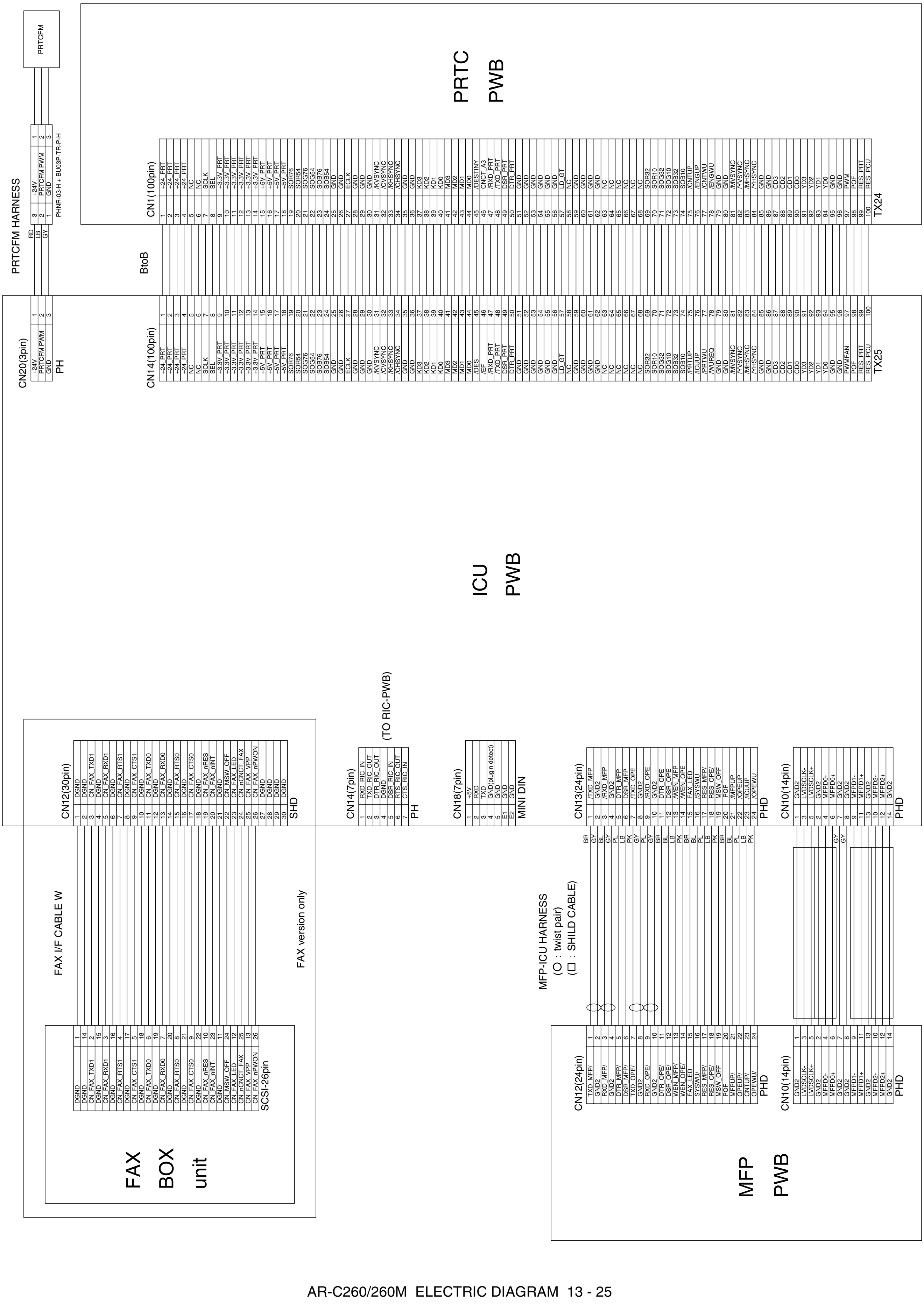
(14) IMAGE SCANNER SECTION


RADF
4 6 12 8 9 2 1 7 3 10 11 5
COPY LAMP
CARD READER
1 2 3 4 5 6
ORS LED PWB
+24V /LED0 /LED1 FG
RD PL LB GY
MHPS
1 MHPS 2 GND2 3 +5V 51024
SCANNER MOTOR
INVERTER PWB
5 GND 4 GND 3 LAMP 2 +24V 1 +24V
OCSW
1 +5V 2 GND2 3 OCSW NH
BL GY LB
ORS I/F HARNESS
MFP-SENSOR HARNESS
12pin
4 TXD-RADF 6 RXD-RADF 12 DTR-RADF 8 DSR-RADF 9 RES-RADF 2 +5V_OP 1 RADF_UP 7 +5V 3 +24V 10 GND 11 GND 5 FG
GY ELR/P
1 /CARD 2 /SEL 3 /CLOCK 4 /DATA 5 +5V 6 GND SMP/R
DHSW HARNESS
MFP-LAMP FFC
CN6 (6pin) +5V 1 GND2 2 OCSW 3 +24V 4 /LED0 5 /LED1 6 PH
CN11(16pin) MHPS 15 BR GND2 16 GY +5V 14 OR TXD-RADF 1 BR RXD-RADF 3 BL DTR-RADF 5 PL DSR-RADF 7 LB RES-RADF 9 PK +5V_OP 11 OR RADF_UP 13 BL +5V 2 OR +5V 4 RD +24V 6 RD +24V 8 GY GND 10 GY GND 12 PHD
CN8 (5pin) GND 1 GND 2 LAMP 3 +24V 4 +24V 5 FE
CN14(4pin) SM A 1 SM B 2 SM A/ 3 SM B/ 4 PH
CN9 (10pin) /CARD 4 BR /SEL 5 BL /CLOCK 6 PL /DATA 3 LB +5V 2 OR GND 10 GY PHD
MFP PWB
CN13(30pin) 30 GND2 29 REVEN 28 GND2 27 RODD 26 GND2 25 GEVEN 24 GND2 23 GODD 22 GND2 21 BEVEN 20 GND2 19 BODD 18 GND2 17 +5V 16 +12V 15 +12V 14 +5V 13 GND2 12 GND2 11 GND2 10 CCD_CP 9 GND2 8 CCD_RS 7 GND2 6 CCD_SH 5 GND2 4 CCD_CLK2 3 GND2 2 CCD_CLK1 1 GND2 FMZ
MFP-CCD FFC
CN1(30pin) GND2 1 REVEN 2 GND2 3 RODD 4 GND2 5 GEVEN 6 GND2 7 GODD 8 GND2 9 BEVEN 10 GND2 11 BODD 12 GND2 13 D5V 14 12V 15 12V 16 D5V 17 GND2 18 GND2 19 GND2 20 CCD_CP 21 GND2 22 CCD_RS 23 GND2 24 CCD_SH 25 GND2 26 CCD_CLK2 27 GND2 28 CCD_CLK1 29 GND2 30 FE
CCD PWB

(15) OPERATION SECTION


TIGER LCD UNIT
GND2
HV
20pin
20 Vss
19 NC
18 NC
17 NC
16 NC
15 Vss
14 D3
13 D2
12 D1
11 D0
10 Vss
9 Vcon
8 VDD
7 DISP
6 Vss
5 XCK
4 Vss
3 LP
2 M
1 YD
FH
OP-LCD FFC
TOUCH PANEL
ORS PD PWB
6pin
1 /PDSEL0
2 /PDSEL1
3 /PDSEL2
4 +5V
5 PD
6 GND2
PH
OP-PD HARNESS
INVERTER /LVDS PWB
CN3(2pin)
/CCFT 1
HV 2
BH
CN4(20pin)
Vss(GND2) 1
NC 2
NC 3
NC 4
NC 5
Vss(GND2) 6
LCD_D3 7
LCD_D2 8
LCD_D1 9
LCD_D0 10
Vss(GND2) 11
LCD-VEE 12
3.3V 13
LCD-DIS 14
Vss(GND2) 15
LCD_CP2 16
Vss(GND2) 17
LCD_CP1 18
LCD_M 19
LCD_S 20
FLS
CN2(5pin)
/YL 1
XH 2
YH 3
/XL 4
FM
CN2 (6pin)
PDSEL0 1
PDSEL1 2
PDSEL2 3
+5V 4
PD 5
GND2 6
PH
OPE KEY PWB
CN1(30pin)
1 LCDS+
2 LCDS-
3 LCDM+
4 LCDM-
5 LCDCP1+
6 LCDCP1-
7 GND2
8 LCDCP2+
9 LCDCP2-
10 GND2
11 LCDDIS
12 LCD-VCC
13 LCD-VEE
14 LCDD0+
15 LCDD0-
16 LCDD1+
17 LCDD1-
18 LCDD2+
19 LCDD2-
20 LCDD3+
21 LCDD3-
22 GND2
23 TH
24 GND2
25 +24V
26 /CCFT
27 YH
28 /XL
29 /YL
30 XH
FMZ
CN1 (26pin)
1 GND2
2 SCAN0
3 SCAN1
4 SCAN2
5 SCAN3
6 SCAN4
7 SENSE0
8 SENSE1
9 SENSE2
10 SENSE3
11 SENSE4
12 SEG0\
13 SEG1\
14 SEG2\
15 SEG3\
16 COM0
17 COM1
18 COM2
19 FRDY
20 /BZR
21 PDSEL0
22 PDSEL1
23 PDSEL2
24 +5V
25 PD
26 GND2
FAZ
PANEL EARTH HARNESS
MFP-OP FFC
OP-KEY FFC
CN3 (30pin)
LCDS+ 1
LCDS- 2
LCDM+ 3
LCDM- 4
LCDCP1+ 5
LCDCP1- 6
GND2 7
LCDCP2+ 8
LCDCP2- 9
GND2 10
LCDDIS 11
+3.3V_OP 12
LCD_VEE 13
LCDD0+ 14
LCDD0- 15
LCDD1+ 16
LCDD1- 17
LCDD2+ 18
LCDD2- 19
LCDD3+ 20
LCDD3- 21
GND2 22
TH1 23
GND2 24
+24V_OP 25
CCFT_PWM\ 26
X1 27
Y1 28
X2\ 29
Y2\ 30
FMZ
CN5 (26pin)
GND2 1
SCAN0\ 2
SCAN1\ 3
SCAN2\ 4
SCAN3\ 5
SCAN4\ 6
SENSE0\ 7
SENSE1\ 8
SENSE2\ 9
SENSE3\ 10
SENSE4\ 11
SEG0\ 12
SEG1\ 13
SEG2\ 14
SEG3\ 15
COM0 16
COM1 17
COM2 18
FRDY 19
BZR_PWM\ 20
PDSEL0 21
PDSEL1 22
PDSEL2 23
+5V_OP 24
PD 25
GND2 26
FMZ
MFP PWB

(16) ICU SECTION


PRTCFM
PRTCFM HARNESS
PHNR-03-H + BU03P-TR-P-H
PRTC PWB
CN1(100pin)
TX24
BtoB
ICU PWB
CN20(3pin)
PH
CN14(100pin)
TX25
CN12(30pin)
SHD
(TO RIC-PWB)
CN14(7pin)
PH
CN18(7pin)
MINI DIN
CN13(24pin)
PHD
CN10(14pin)
PHD
FAX I/F CABLE W
FAX version only
MFP-ICU HARNESS
(○ : twist pair)
(□ : SHILD CABLE)
FAX BOX unit
SCSI-26pin
MFP PWB
CN12(24pin)
PHD
CN10(14pin)
PHD

5. Signal list

Signal name	Name	Function/Operation	Section
AOSW	ADF open switch	Detects ADF open.	AR-RF3
APAM	Alignment motor	Aligns paper in ADU.	AR-D19
APHPS	Alignment plate home position detection	Detects the alignment plate in ADU.	AR-D19
APPD1	ADU transport sensor 1	Detects paper transport in ADU.	AR-D19
APPD2	ADU transport sensor 2	Detects paper transport in ADU.	AR-D19
ARHPS	Bundle roller HP sensor		AR-F13
AS	Alignment tray sensor		AR-F13
ATM	ADU transport motor	Drives the paper transport section in ADU.	AR-D19
ATRC	ADU transport clutch	Controls ON/OFF of the transport roller in ADU.	AR-D19
BDD	Door open detection 1	Detects upper door open.	AR-RB1
BDD2	Door open detection 2	Detects left door open.	AR-RB1
BES	Tray paper sensor		AR-F13
BGSOL	Gate solenoid	Switches straight or reverse paper exit.	AR-RB1
BIM	Paper entry motor	Transports paper in the paper entry section.	AR-RB1
BLUD	Belt lift-up upper limit detection	Detects if the transfer belt is lifted up or down.	Main machine
BLUM	Belt lift-up motor	Lifts the transfer belt unit.	Main machine
BPFD	Full sensor	Detects paper full on the tray.	AR-RB1
BPOD	Paper exit sensor	Detects paper exit.	AR-RB1
BPPD1	Transport sensor 1	Detects paper transport.	AR-RB1
BPPD2	Transport sensor 2	Detects paper transport.	AR-RB1
BPRD	Reverse section sensor	Detects paper presence in the reverse section.	AR-RB1
BRM	Upper reverse motor	Transports paper in the upper section.	AR-RB1
BTM	Transport belt motor	Drives the transfer belt.	Main machine
BTM	Lower reverse motor	Transports paper in the lower section.	AR-RB1
BTNF	Belt waste toner detection	Detects belt waste toner full.	Main machine
C1SS1	1 cassette paper size detection 1	Detects the paper size which is set by the paper size set block.	Main machine
C1SS2	1 cassette paper size detection 2	Detects the paper size which is set by the paper size set block.	Main machine
C1SS3	1 cassette paper size detection 3	Detects the paper size which is set by the paper size set block.	Main machine
C1SS4	1 cassette paper size detection 4	Detects the paper size which is set by the paper size set block.	Main machine
CALS	Calibration plate open/close solenoid	Switches image density sensors.	Main machine
CPFC1	Paper feed clutch	Transmits the paper feed motor power to each transport roller. (Controls ON/OFF.)	Main machine
DCSPSx	Paper remaining quantity sensor	Detects the remaining quantity of paper.	AR-D17/D18
DCSSx	Paper size sensor	Detects the paper size.	AR-D17/D18/D19
DDOPD	Door open sensor	Detects opening of the right door.	AR-D17/D18
DEM	Reverse motor	Reverses or discharges documents.	AR-RF3
DEOS	Paper exit open sensor	Detects opening of the paper exit cover.	AR-RF3
DES	Paper exit sensor	Detects that a document has been transported to the paper exit sensor section.	AR-RF3
DFM	Paper feed motor	Feeds a document from the tray.	AR-RF3
DFOS	Paper feed open sensor	Detects opening of the paper feed cover.	AR-RF3
DFSW	Paper feed open switch	Detects opening of the paper feed cover.	AR-RF3
DH	Dehumidifier heater	Dehumidifier heater for the machine cassette.	Main machine
DH (Japan only)	Dehumidifier heater 1	Dehumidifies the scanner section.	Main machine
DH (Japan only)	Dehumidifier heater 2	Dehumidifies the lens section.	Main machine
DHSW (Japan only)	Dehumidifier heater switch	Turns ON/OFF the power line of the dehumidifier heaters provided in the scanner (reading) section and the paper feed section.	Main machine
DLMx	Lift motor	Drives the lift plate.	AR-D17/D18/D19
DLS1	Tray document length sensor 1	Detects the document length on the tray. (Short)	AR-RF3
DLS2	Tray document length sensor 2	Detects the document length on the tray. (Long)	AR-RF3
DLUDx	Paper upper limit sensor	Detects the paper upper limit position.	AR-D17/D18/D19
DM	Paper feed drive motor	Drives the paper feed section and the paper transport section.	AR-D17/D18/D19
DM_C	Drum motor (C)	Drives the Cyan photoconductor unit.	Main machine
DM_K	Drum motor (K)	Drives the Black photoconductor unit.	Main machine
DM_M	Drum motor (M)	Drives the Magenta photoconductor unit.	Main machine
DM_Y	Drum motor (Y)	Drives the Yellow photoconductor unit.	Main machine
DPEDx	Paper empty sensor	Detects paper presence on the paper tray.	AR-D17/D18/D19
DPFCx	Paper feed clutch	Controls ON/OFF of the paper feed roller.	AR-D17/D18/D19
DPFSx	Pickup solenoid	Presses the paper pickup roller onto paper.	AR-D17/D18/D19
DPPD1	Paper transport sensor 1	Detects paper transport.	AR-D17/D18/D19
DPPD2	Paper transport sensor 2	Detects paper transport.	AR-D17/D18
DPPD3	Paper transport sensor 3	Detects paper transport.	AR-D17/D18

Signal name	Name	Function/Operation	Section
DRS	Reverse sensor	Detects that a document has been transported to the reverse sensor section.	AR-RF3
DRSOL	Reverse solenoid	Switches the flapper in duplex operation.	AR-RF3
DSWF	Front door open detection	Detects opening of the front door.	Main machine
DSWL	Paper exit door open detection	Detects opening of the paper exit door.	Main machine
DSWR	Paper feed door open detection	Detects opening of the paper feed door.	Main machine
DTM	Transport motor	Transports a document on the document glass,	AR-RF3
DTRC	Transport clutch	Controls ON/OFF of the transport roller.	AR-D17/D18/D19
DUSTPTR	Punch dust full sensor	Detects punch dust full.	AR-F13
DWVR	Document width detection volume	Detects the document width on the tray.	AR-RF3
EMPS	Empty sensor	Detects document presence on the paper feed tray.	AR-RF3
ES	Entry port sensor		AR-F13
FAM	Bundle exit sensor		AR-F13
FDS	Front door sensor		AR-F13
FDSW	Front door switch		AR-F13
FE	Bookbinding clock sensor		AR-F13
FES	Bookbinding paper senor		AR-F13
FFJM	Alignment motor (F)		AR-F13
FFM	Transport motor		AR-F13
FFSM	Stapler/Folding motor staple operation/ Paper folding operation		AR-F13
FHPS	Bookbinding HP sensor		AR-F13
FJHPS	Alignment HP sensor		AR-F13
FLM	Shift motor		AR-F13
FOS	ADF front open sensor	Detects opening of ADF.	AR-RF3
FPM	Paddle motor oscillation guide drive, discharge to offset tray		AR-F13
FPNM	Punch motor		AR-F13
FPS	Bookbinding position sensor		AR-F13
FPSM	Puncher side registration motor		AR-F13
FRHPS	Bookbinding roller HP sensor		AR-F13
FRJM	Alignment motor (R)		AR-F13
FSM	Slide motor staple unit shift		AR-F13
FUSM	Fusing drive motor	Drives the fusing unit.	Main machine
GSS	Face up/down switch gate solenoid	Drives the face-up/down switch gate.	Main machine
HLTS1	Upper heat roller thermostat	Detects an abnormally high temperature to turn off the heater lamp.	Main machine
HLTS2	Lower heat roller thermostat	Detects an abnormally high temperature to turn off the heater lamp.	Main machine
HPOS	Offset home position sensor	Detects the offset home position.	Main machine
HUD	Humidity sensor	Detects the humidity.	Main machine
JS	Joint switch		AR-F13
LDD	Lower limit detector		AR-LC5
LE	Lift lock sensor		AR-F13
LEDONx	Paper size sensor	Detects the paper size.	AR-F13
LLLS	Lift lower limit sensor		AR-F13
LLM	Lift-up motor		AR-LC5
LLSW	Upper limit lock switch		AR-LC5
LPED	Paper detector		AR-LC5
LPFC	Paper clutch		AR-LC5
LPFD	Transport detector		AR-LC5
LPFM	Paper feed and transport motor		AR-LC5
LPFS	Pick-up solenoid		AR-LC5
LRES	Encoder sensor		AR-LC5
LTOD	Copier connection detector		AR-LC5
LTRC	Paper feed clutch		AR-LC5
LUD	Upper limit detector		AR-LC5
LUD1	1 cassette lift-up upper limit detection	Detects the paper upper limit position.	Main machine
LUM1	1 cassette lift-up motor	Drives the lift plate.	Main machine
MHPS	Mirror home position sensor	Detects the scanner home position.	Main machine
MPED	Manual feed paper empty sensor	Detects paper presence on the paper tray.	Main machine
MPFC	Manual paper feed clutch	Controls ON/OFF of the paper feed roller. Presses the paper pickup roller onto paper.	Main machine
MPLD1	Manual paper length detection 1	Detects the paper length.	Main machine
MPLD2	Manual paper length detection 2	Detects the paper length.	Main machine

Signal name	Name	Function/Operation	Section
MPWS	Manual paper width detection	Detects the paper width.	Main machine
MSW	Main switch	Turns ON/OFF the main power.	Main machine
MTOP1	Manual tray pull-out detection 1	Detects the paper tray position.	Main machine
MTOP2	Manual tray pull-out detection 2	Detects the paper tray position.	Main machine
MTRC	Manual feed drive clutch	Transmits drive power to the manual paper feed unit.	Main machine
OBHPS	Paper exit belt HP sensor		AR-F13
OCSW	O/G open sensor	Detects opening of the document cover. (Generates the document size detection timing signal.)	Main machine
OSM	Offset motor (Slide motor)	Drives the paper offset.	Main machine
PCFM	Process cooling fan motor	Exhaust and cools the process section.	Main machine
PCS_C	Color toner concentration (process control) sensor	Detects the toner patch density (color toner) in image density correction.	Main machine
PE	Punch motor encoder		AR-F13
PED1	1 cassette paper empty detection	Detects paper presence on the paper tray.	Main machine
PFD1	1 cassette paper feed detection	Detects paper delivery from No. 1 paper tray.	Main machine
PFM	Paper feed motor	Drives the paper feed section and the paper transport section.	Main machine
PHPS	Paddle HP sensor		AR-F13
POD1	Machine paper exit sensor 1	Detects discharged paper.	Main machine
POD2	Machine paper exit sensor 2	Detects discharged paper.	Main machine
PPD1	No. 1 paper transport sensor	Detects paper in front of the resist roller.	Main machine
PPD2	PS front sensor	Detects paper in front of PS.	Main machine
PSFM	Power UN cooling fan motor	Cools the power unit.	Main machine
PSHPS	Punch side registration home position		AR-F13
PSM	PS motor	Drives the resist roller and controls ON/OFF.	Main machine
PUNCH	Punch home position		AR-F13
PWMFAN_ICU	Printer controller cooling fan motor	Cools the printer controller.	Main machine
REGS	Resist sensor	Detects that a document has been transported to the resist roller sensor section.	AR-RF3
RJHPS	Alignment HP sensor R		AR-F13
SHPS	Slide HP sensor		AR-F13
SLS	Paper surface sensor		AR-F13
SM	Scanner motor	Drives the scanner unit.	Main machine
SPS	Staple sensor	Detects staple empty.	AR-F13
SS	Staple cartridge sensor	Detects installation of a staple cartridge.	AR-F13
SSS	Stapler safety switch		AR-F13
STHPS	Stapler HP sensor		AR-F13
TCS	Upper cover sensor		AR-F13
TES_C	Toner empty sensor (C)	Detects toner empty (C).	Main machine
TES_K	Toner empty sensor (K)	Detects toner empty (K).	Main machine
TES_M	Toner empty sensor (M)	Detects toner empty (M).	Main machine
TES_Y	Toner empty sensor (Y)	Detects toner empty (Y).	Main machine
TFD2	Paper exit tray full detection	Detects face-down paper exit tray full.	Main machine
TFD2	Face-up paper exit tray full detection	Detects face-up paper exit tray full.	Main machine
THSD	Lower heat roller thermistor	Detects the temperature on the heat roller surface.	Main machine
THSU	Upper heat roller thermistor	Detects the temperature on the heat roller surface.	Main machine
TIMS	Timing sensor	Detects that a document has been transported to the timing sensor section.	AR-RF3
TRC	PS front clutch	Transmits the paper feed motor power to the manual transport roller. (Controls ON/OFF.)	Main machine
ULS	Lift upper limit sensor		AR-F13
VFMP	Exhaust fan motor 1	Exhaust and cools the fusing section.	Main machine
VFMS	Exhaust fan motor 2	Exhaust and cools the fusing section.	Main machine

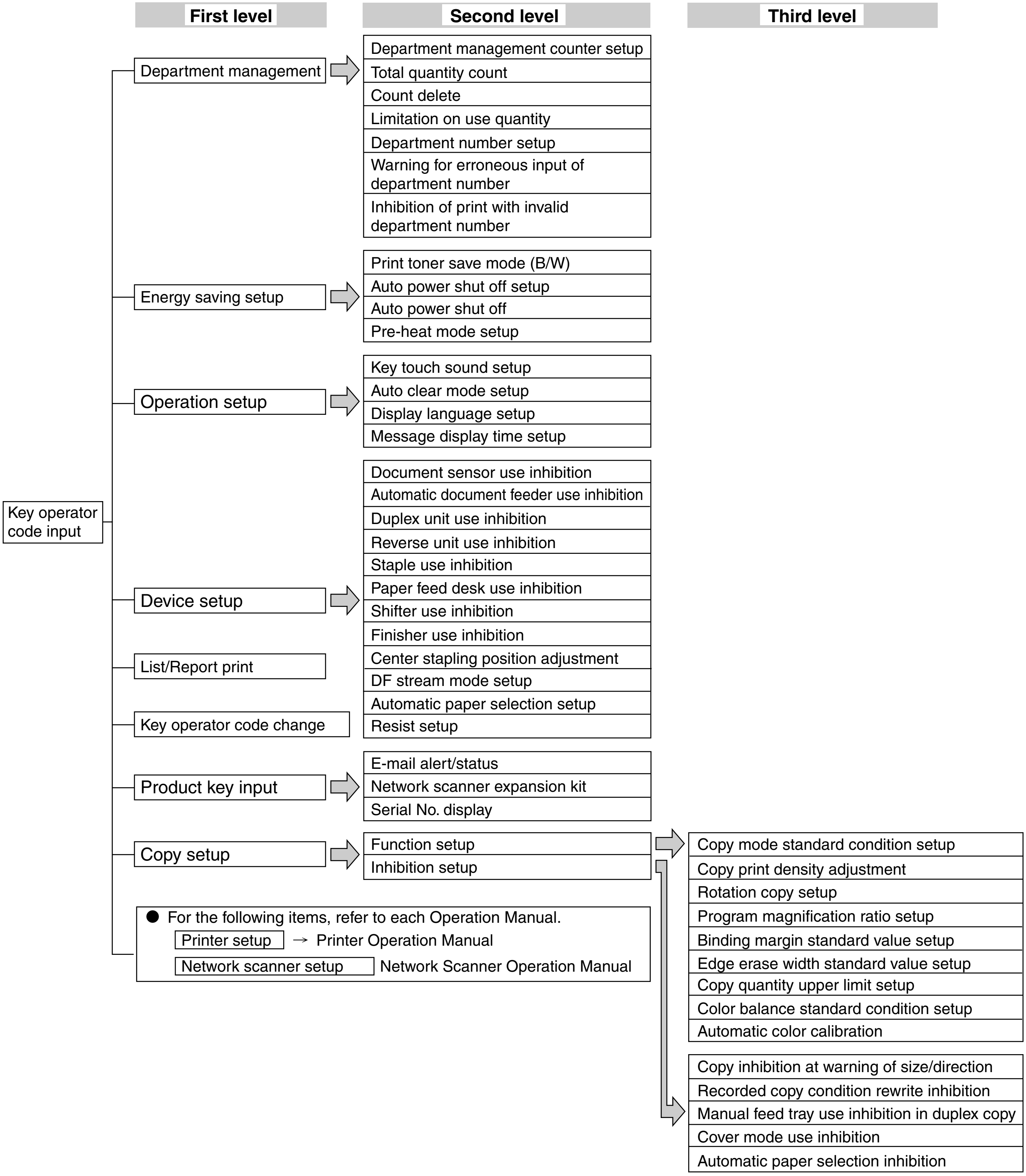
[14] OTHERS

1. Key operator program

A. Classification of set items

The set items of the key operator program are classified into the following three levels:

* Some items have further lower levels (set menus).


First level
Second level
Third level
Key operator code input
Department management
Department management counter setup
Total quantity count
Count delete
Limitation on use quantity
Department number setup
Warning for erroneous input of department number
Inhibition of print with invalid department number
Energy saving setup
Print toner save mode (B/W)
Auto power shut off setup
Auto power shut off
Pre-heat mode setup
Operation setup
Key touch sound setup
Auto clear mode setup
Display language setup
Message display time setup
Device setup
Document sensor use inhibition
Automatic document feeder use inhibition
Duplex unit use inhibition
Reverse unit use inhibition
Staple use inhibition
Paper feed desk use inhibition
Shifter use inhibition
Finisher use inhibition
Center stapling position adjustment
DF stream mode setup
Automatic paper selection setup
Resist setup
List/Report print
Key operator code change
Product key input
E-mail alert/status
Network scanner expansion kit
Serial No. display
Copy setup
Function setup
Inhibition setup
Copy mode standard condition setup
Copy print density adjustment
Rotation copy setup
Program magnification ratio setup
Binding margin standard value setup
Edge erase width standard value setup
Copy quantity upper limit setup
Color balance standard condition setup
Automatic color calibration
Copy inhibition at warning of size/direction
Recorded copy condition rewrite inhibition
Manual feed tray use inhibition in duplex copy
Cover mode use inhibition
Automatic paper selection inhibition
● For the following items, refer to each Operation Manual.
Printer setup → Printer Operation Manual
Network scanner setup Network Scanner Operation Manual

2. Special tools

No	Name	Part code	Purpose	Note
1	SIT chart (CCD gamma adjustment chart)	UKOG-0280FCZZ	Used to correct CCD gamma characteristics.	
2	Service color test chart	UKOG-0283FCZZ	Used to check color copy quality.	
3	Gray scale chart	UKOG-0162FCZZ	Used to check copy density.	
4	Service color test chart for printer	UKOG-0305FCZZ		New
5	Image density sensor adjustment jig	CPLTM6305FC01	Used to adjust the image density sensor. (Plate with calibration sheet)	New
		TLABZ4843FCZZ	Calibration sheet	New (for replacement)
6	Extension cable for measure high voltage	DHAi-3471FCZZ	Used to check the MC grid and DV bias voltage (Color)	New
7		DHAi-3472FCZZ	Used to check the MC grid and DV bias voltage (Black)	New
8	Starting powder	UKOG-0123FCZZ	Used to reduce friction between the transfer belt and the transfer belt cleaning blade.	
9	Cleaning cloth	UKOG-0289FCZZ	Used to clean the optical system. Wash to reuse.	
10	Level converter	UKOG-0002QSZZ (with serial cable)	Used to download the FLASH ROM program from a PC to the FLASH ROM on the machine.	Commercially available serial cable can be used.
		UKOG-0003QSZZ (without serial cable)		
11	FLASH ROM download program file	Mainte_xxxx.exe	Download (upgrade) the FLASH ROM program for main body section	
12		WDskxxx_d.pgm	Download (upgrade) the FLASH ROM program for Desk unit	
13	Spare FLASH ROM		FLASH ROM (16Mbit x 2) 1pc	The type (capacity) of Flash ROM is determined depending on the kind of Flash ROM (in the PCU PWB, in the ICU PWB, Printer control PWB or in the operation control PWB).
14			FLASH ROM (16Mbit) 1pc	
15			FLASH ROM (8Mbit) 2pcs	
16			FLASH ROM (32Mbit x 2) 2pcs	
17	Magnifying glass		Picture quality check (Mainly the color registration is checked.)	Purchase a commercially available one. (Magnification ratio:20 - 25)

Memo

Memo

Memo

CAUTION FOR BATTERY REPLACEMENT

(Danish) ADVARSEL !

Lithiumbatteri – Eksplosionsfare ved fejlagtig håndtering.
Udskiftning må kun ske med batteri
af samme fabrikat og type.
Levér det brugte batteri tilbage til leverandoren.

(English) Caution !

Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type
recommended by the manufacturer.
Dispose of used batteries according to manufacturer’s instructions.

(Finnish) VAROITUS

Paristo voi räjähtää, jos se on virheellisesti asennettu.
Vaihda paristo ainoastaan laitevalmistajan suosittelemaan
tyyppiin. Hävitä käytetty paristo valmistajan ohjeiden
mukaisesti.

(French) ATTENTION

Il y a danger d’explosion s’ il y a remplacement incorrect
de la batterie. Remplacer uniquement avec une batterie du
même type ou d’un type équivalent recommandé par
le constructeur.
Mettre au rebut les batteries usagées conformément aux
instructions du fabricant.

(Swedish) VARNING

Explosionsfara vid felaktigt batteribyte.
Använd samma batterityp eller en ekvivalent
typ som rekommenderas av apparattillverkaren.
Kassera använt batteri enligt fabrikantens
instruktion.

(German) Achtung

Explosionsgefahr bei Verwendung inkorrekter Batterien.
Als Ersatzbatterien dürfen nur Batterien vom gleichen Typ oder
vom Hersteller empfohlene Batterien verwendet werden.
Entsorgung der gebrauchten Batterien nur nach den vom
Hersteller angegebenen Anweisungen.

CAUTION FOR BATTERY DISPOSAL

(For USA, CANADA)

Contains lithium-ion battery. Must be disposed of properly.
Remove the battery from the product and contact
federal or state environmental
agencies for information on recycling and disposal options.

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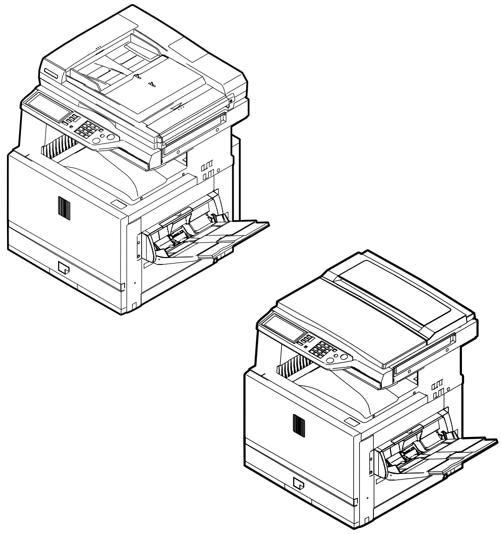
Products Quality Assurance Department
Yamatokoriyama, Nara 639-1186, Japan
2003 March Printed in Japan

SHARP

CIRCUIT DIAGRAM

CODE: 00ZARC260/C1/



DIGITAL FULL COLOR COPIER

デジタルフルカラー 複合機

MODEL AR-C260

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Parts marked with "⚠" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

安全性・信頼性確保のため部品は、必ず正規のものをご使用下さい。
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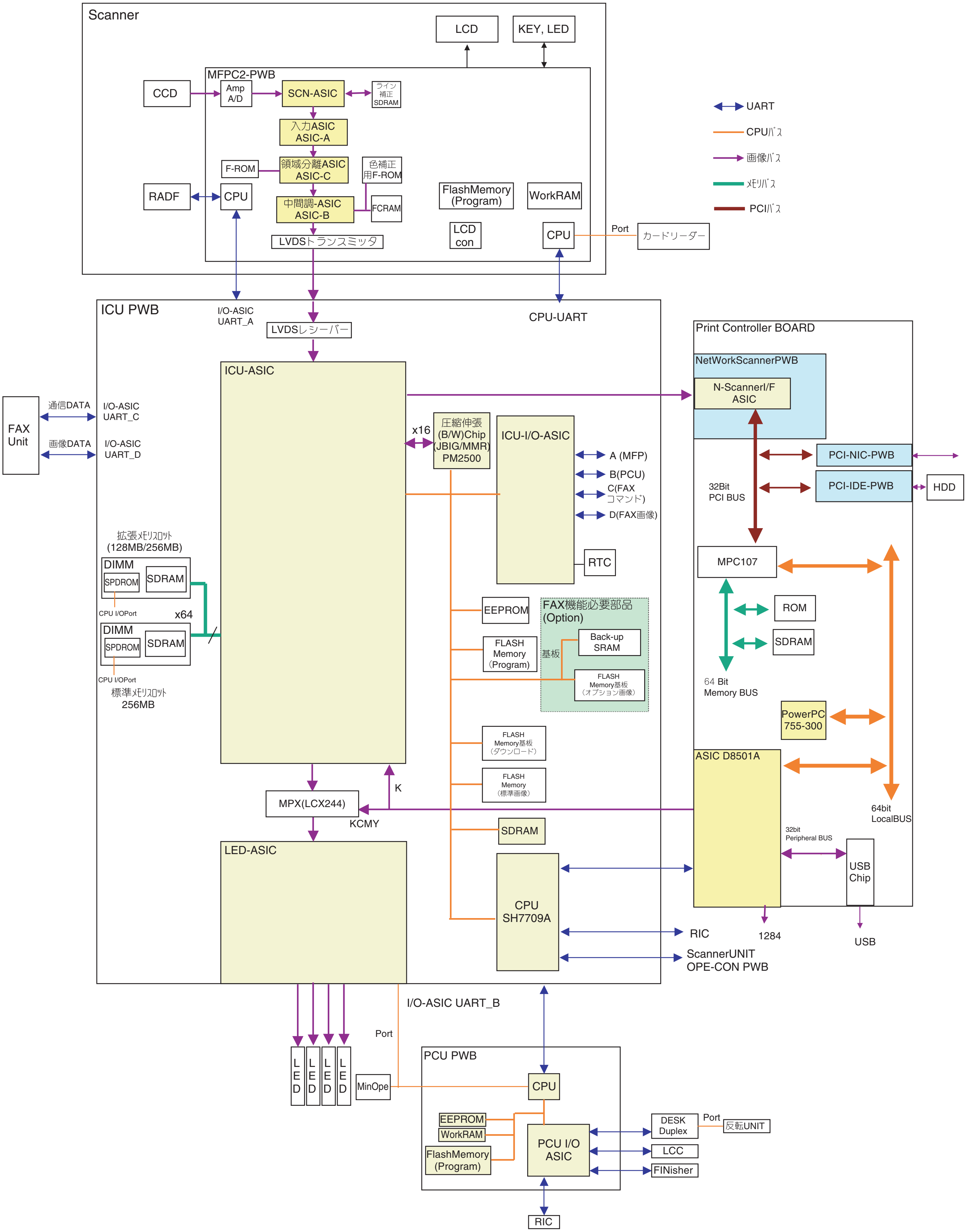
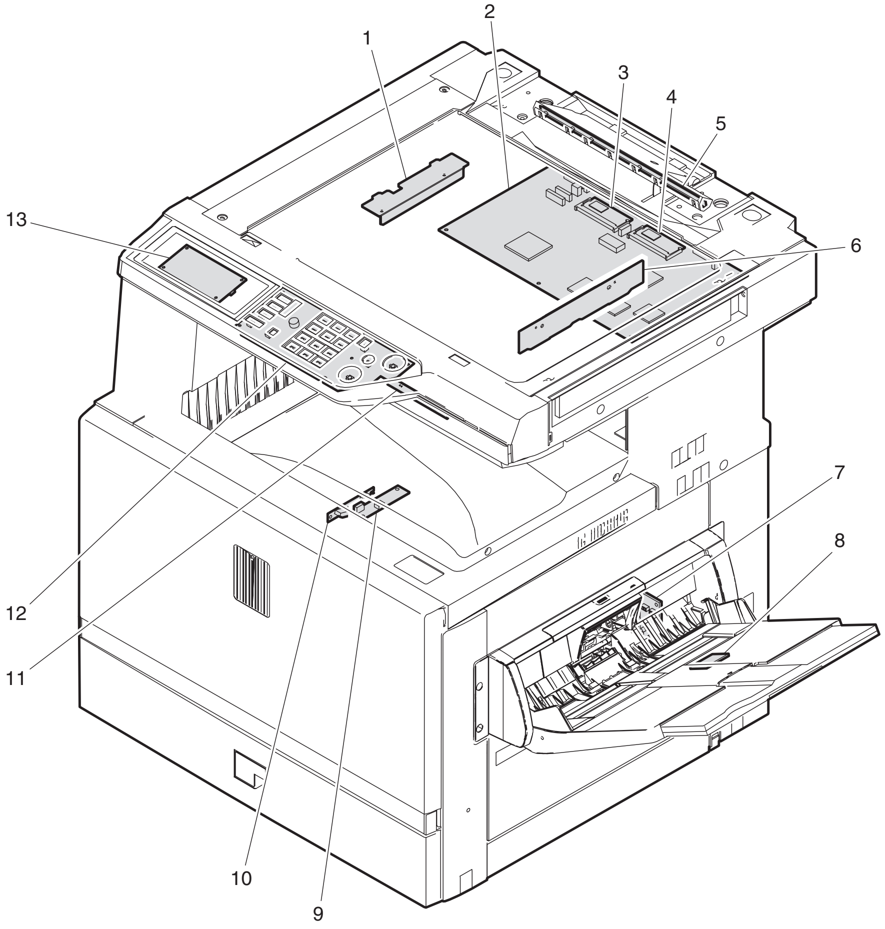
The contents are subject to change without notice.

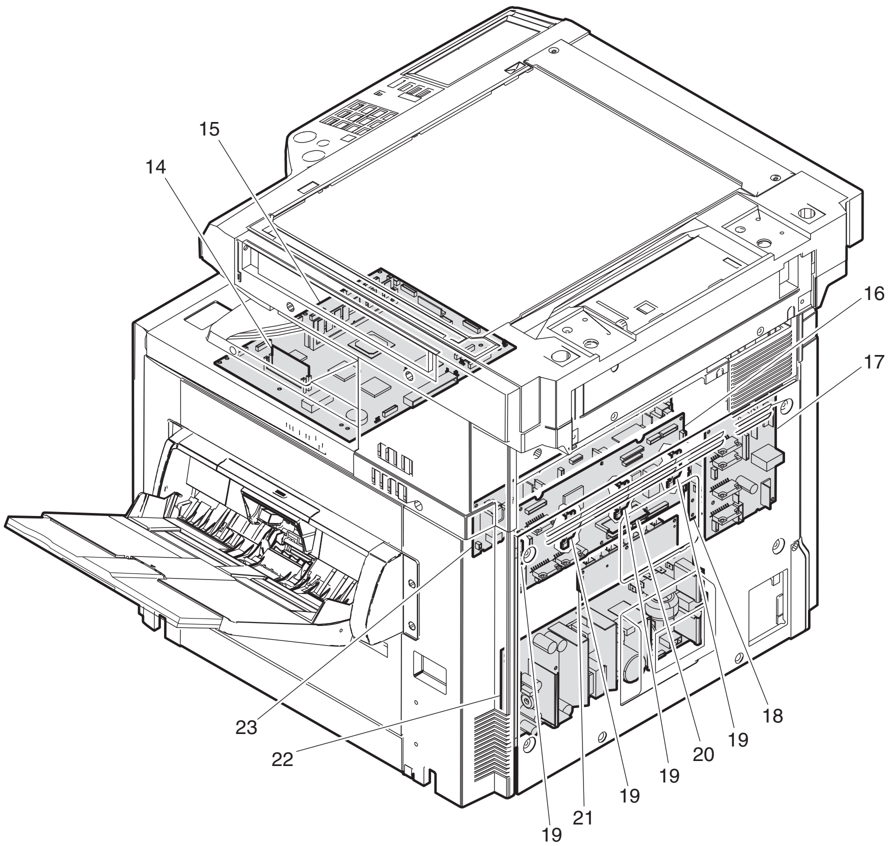
[1] BLOCK DIAGRAM / ブロックダイアグラム



Scanner
LCD
KEY, LED
MFPC2-PWB
CCD
Amp
A/D
SCN-ASIC
ライン
補正
SDRAM
入力ASIC
ASIC-A
F-ROM
領域分離ASIC
ASIC-C
色補正
用F-ROM
RADF
CPU
中間調-ASIC
ASIC-B
FCRAM
LVDSトランスミッタ
FlashMemory
(Program)
WorkRAM
LCD
con
CPU
Port
カードリーダー
UART
CPUﾊﾞｽ
画像ﾊﾞｽ
ﾒﾓﾘﾊﾞｽ
PCIﾊﾞｽ
ICU PWB
I/O-ASIC
UART_A
LVDSレシーバー
CPU-UART
Print Controller BOARD
NetWorkScannerPWB
N-ScannerI/F
ASIC
ICU-ASIC
FAX
Unit
通信DATA
I/O-ASIC
UART_C
画像DATA
I/O-ASIC
UART_D
x16
圧縮伸張
(B/W)Chip
(JBIG/MMR)
PM2500
ICU-I/O-ASIC
A (MFP)
B(PCU)
C(FAX
コマンド)
D(FAX画像)
PCI-NIC-PWB
PCI-IDE-PWB
HDD
32Bit
PCI BUS
RTC
MPC107
拡張ﾒﾓﾘｽﾛｯﾄ
(128MB/256MB)
DIMM
SPDROM
SDRAM
CPU I/OPort
x64
DIMM
SPDROM
SDRAM
CPU I/OPort
標準ﾒﾓﾘｽﾛｯﾄ
256MB
EEPROM
FAX機能必要部品
(Option)
基板
Back-up
SRAM
FLASH
Memory
(Program)
FLASH
Memory基板
(オプション画像)
ROM
SDRAM
64 Bit
Memory BUS
PowerPC
755-300
FLASH
Memory基板
(ダウンロード)
FLASH
Memory
(標準画像)
ASIC D8501A
64bit
LocalBUS
K
MPX(LCX244)
KCMY
SDRAM
32bit
Peripheral BUS
LED-ASIC
CPU
SH7709A
USB
Chip
RIC
1284
USB
ScannerUNIT
OPE-CON PWB
I/O-ASIC UART_B
Port
L
E
D
L
E
D
L
E
D
L
E
D
MinOpe
PCU PWB
CPU
EEPROM
WorkRAM
FlashMemory
(Program)
PCU I/O
ASIC
DESK
Duplex
Port
反転UNIT
LCC
FINisher
RIC

[2] PWB LOCATION CHART / 基板（PWB）ロケーション


2
1
3
4
5
13
6
7
8
12
11
10
9


15
14
16
17
18
19
20
19
19
19
23
22
21
19

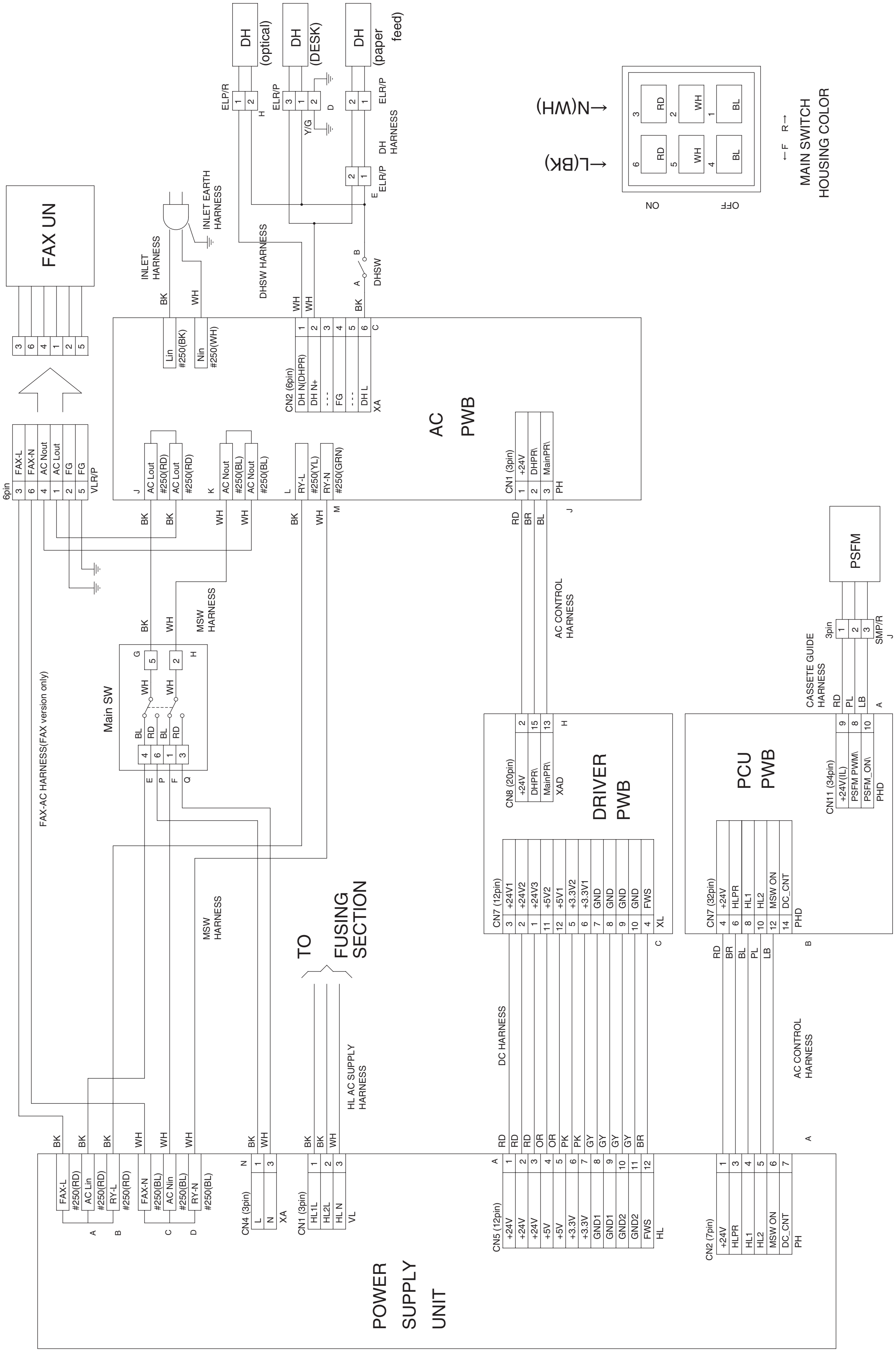
No.	パーツ		略称・信号名	タイプ
	名　　称	機　能・動　作		
1	CL インバータ基板	キセノンランプを駆動する		
2	MFP 基板	CCD から出力されたイメージの各種補正、操作パネルのコントロール		
3	フラッシュ基板 (OP)	OP 基板を動作させるプログラムが入った基板		
4	フラッシュ基板 (MFP)	MFP 基板を動作させるプログラムが入った基板		
5	原稿検知発光基板	原稿サイズ検知 LED の発光		
6	CCD 基板	原稿イメージを電気信号に変換する		
7	リフト UP 基板	カセットサイズ検知、カセットリフトアップモータ信号中継		
8	手差し VR 基板	手差し幅信号出力		
9	プロコン基板 (モノクロ用)	転写ベルト上のモノクロトナー濃度を出力		
10	プロコン基板 (カラー用)	転写ベルト上のカラートナー濃度を出力		
11	原稿検知受光基板	原稿サイズ検知信号出力		
12	操作基板	キー操作信号を出力する		
13	INV/LVDS 基板	MFP 基板からの LCD、タッチパネル信号の中継、LCD バックライトの駆動		
14	フラッシュ基板 (ICU)	ICU 基板を動作させるプログラムが入った基板		
15	ICU 基板	画像処理、LED ヘッドのコントロール		
16	PCU 基板	エンジンセクションをコントロールする		
17	DRIVER 基板	DC 負荷電源の制御、モータ駆動		
18	AC 電源基板	１次側の電源コントロール		
19	LED DL 基板	感光体上の電荷を除電する		
20	フラッシュ基板 (PCU)	PCU 基板を動作させるプログラムが入った基板		
21	高圧 TC 基板	転写電圧を発生する		
22	DC 電源基板	２次側の電圧出力、HL コントロール		
23	高圧 MC 基板	メインチャージャー用高圧と現像バイアス電圧を発生する		

英文リスト

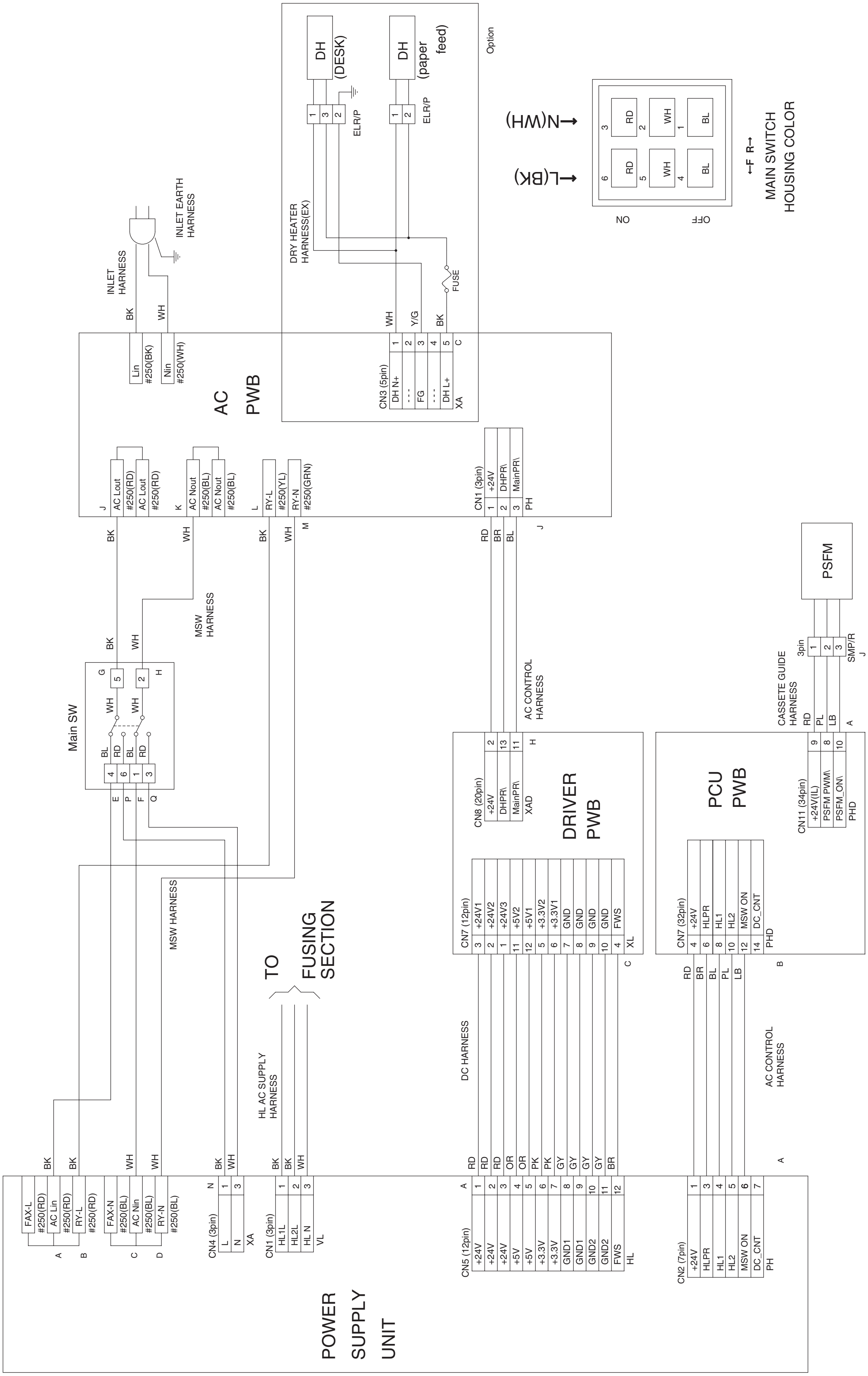
Ⓟ

[3] ACTUAL WIRING CHART / 実体配線図

(1) AC CIRCUIT SECTION (JAPAN) / AC回路部(JAPAN)

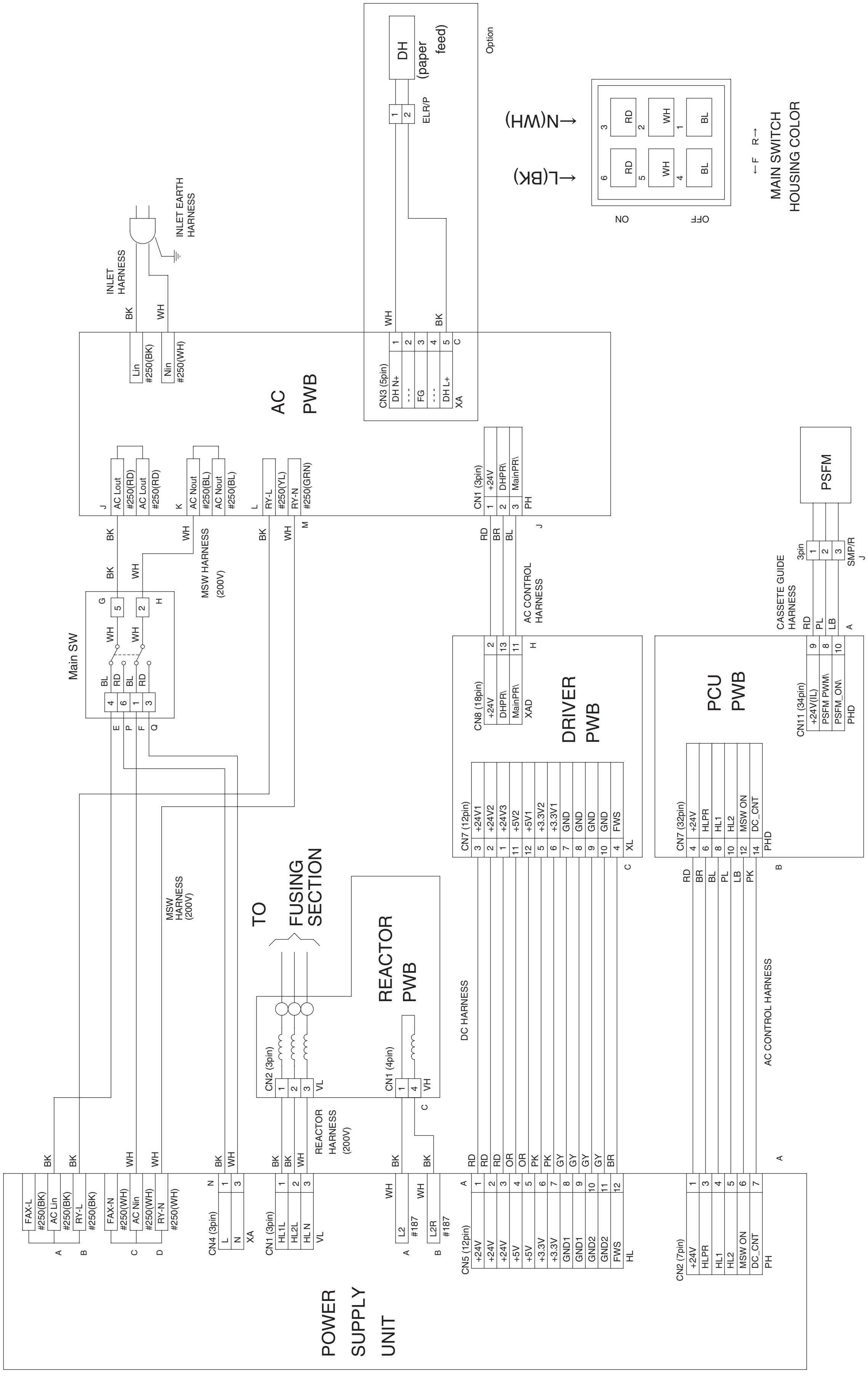

DH (optical)
DH (DESK)
DH (paper feed)
ELP/R
ELR/P
DH HARNESS
Y/G
DHSW
DHSW HARNESS
INLET EARTH HARNESS
INLET HARNESS
FAX UN
FAX-AC HARNESS(FAX version only)
6pin
FAX-L
FAX-N
AC Nout
AC Lout
FG
VLR/P
AC PWB
Lin #250(BK)
Nin #250(WH)
CN2 (6pin)
DH N(DHPR)
DH N+
DH L
XA
AC Lout #250(RD)
AC Nout #250(BL)
RY-L #250(YL)
RY-N #250(GRN)
CN1 (3pin)
+24V
DHPR\
MainPR\
PH
MAIN SWITCH HOUSING COLOR
ON
OFF
←L(BK)
←N(WH)
RD
WH
BL
←F R→
Main SW
MSW HARNESS
AC CONTROL HARNESS
PSFM
SMP/R
CASSETE GUIDE HARNESS
3pin
PL
LB
DRIVER PWB
CN8 (20pin)
XAD
CN7 (12pin)
+24V1
+24V2
+24V3
+5V2
+5V1
+3.3V2
+3.3V1
GND
FWS
XL
PCU PWB
CN11 (34pin)
+24V(IL)
PSFM PWM\
PSFM_ON\
PHD
CN7 (32pin)
HLPR
HL1
HL2
MSW ON
DC_CNT
TO FUSING SECTION
HL AC SUPPLY HARNESS
DC HARNESS
POWER SUPPLY UNIT
AC Lin #250(RD)
AC Nin #250(BL)
CN4 (3pin)
CN1 (3pin)
HL1L
HL2L
HL N
VL
CN5 (12pin)
+5V
+3.3V
GND1
GND2
HL
CN2 (7pin)
BK
WH
OR
PK
GY
BR
YL

(1) AC CIRCUIT SECTION (EX100) / AC回路部 (EX100)

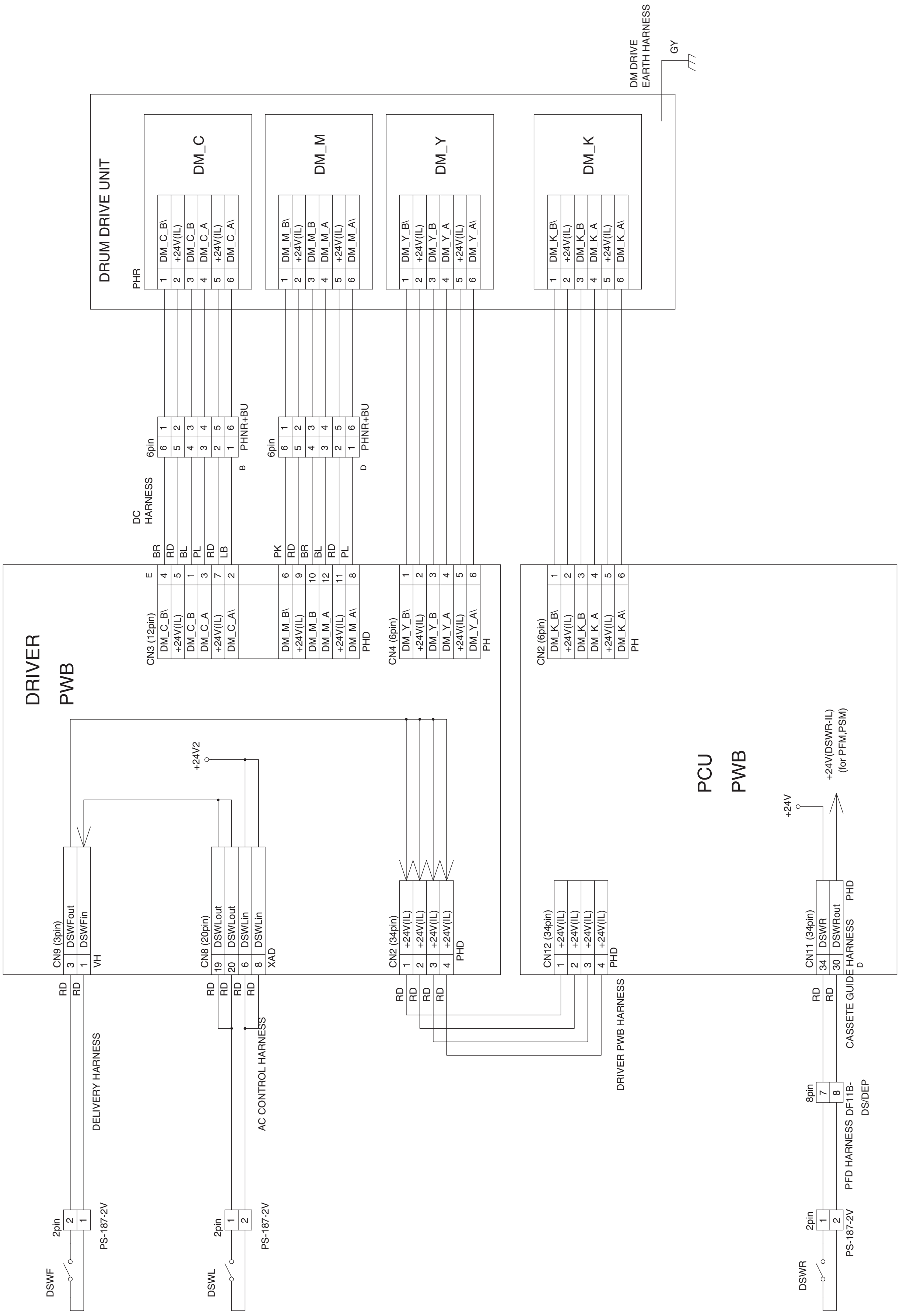


Option
DH (DESK)
DH (paper feed)
ELR/P
DRY HEATER HARNESS(EX)
FUSE
WH
Y/G
BK
CN3 (5pin)
DH N+
- - -
FG
- - -
DH L+
XA
C
INLET HARNESS
INLET EARTH HARNESS
Lin #250(BK)
Nin #250(WH)
AC PWB
J
AC Lout #250(RD)
AC Lout #250(RD)
K
AC Nout #250(BL)
AC Nout #250(BL)
L
RY-L #250(YL)
RY-N #250(GRN)
M
CN1 (3pin)
+24V
DHPR\
MainPR\
PH
RD
BR
BL
MSW HARNESS
Main SW
G
H
E
P
F
Q
RD
BL
AC CONTROL HARNESS
CN8 (20pin)
+24V
DHPR\
MainPR\
XAD
DRIVER PWB
CN7 (12pin)
+24V1
+24V2
+24V3
+5V2
+5V1
+3.3V2
+3.3V1
GND
FWS
XL
PSFM
CASSETE GUIDE HARNESS
3pin
SMP/R
RD
PL
LB
A
PCU PWB
CN11 (34pin)
+24V(IL)
PSFM PWM\
PSFM_ON\
PHD
CN7 (32pin)
+24V
HLPR
HL1
HL2
MSW ON
DC_CNT
PHD
B
TO FUSING SECTION
HL AC SUPPLY HARNESS
DC HARNESS
AC CONTROL HARNESS
FAX-L #250(RD)
AC Lin #250(RD)
RY-L #250(RD)
FAX-N #250(BL)
AC Nin #250(BL)
RY-N #250(BL)
CN4 (3pin)
L
N
XA
CN1 (3pin)
HL1L
HL2L
HL N
VL
CN5 (12pin)
+24V
+5V
+3.3V
GND1
GND2
FWS
HL
RD
OR
PK
GY
BR
CN2 (7pin)
+24V
HLPR
HL1
HL2
MSW ON
DC_CNT
PH
POWER SUPPLY UNIT
L(BK)
N(WH)
ON
OFF
RD
WH
BL
F R
MAIN SWITCH HOUSING COLOR

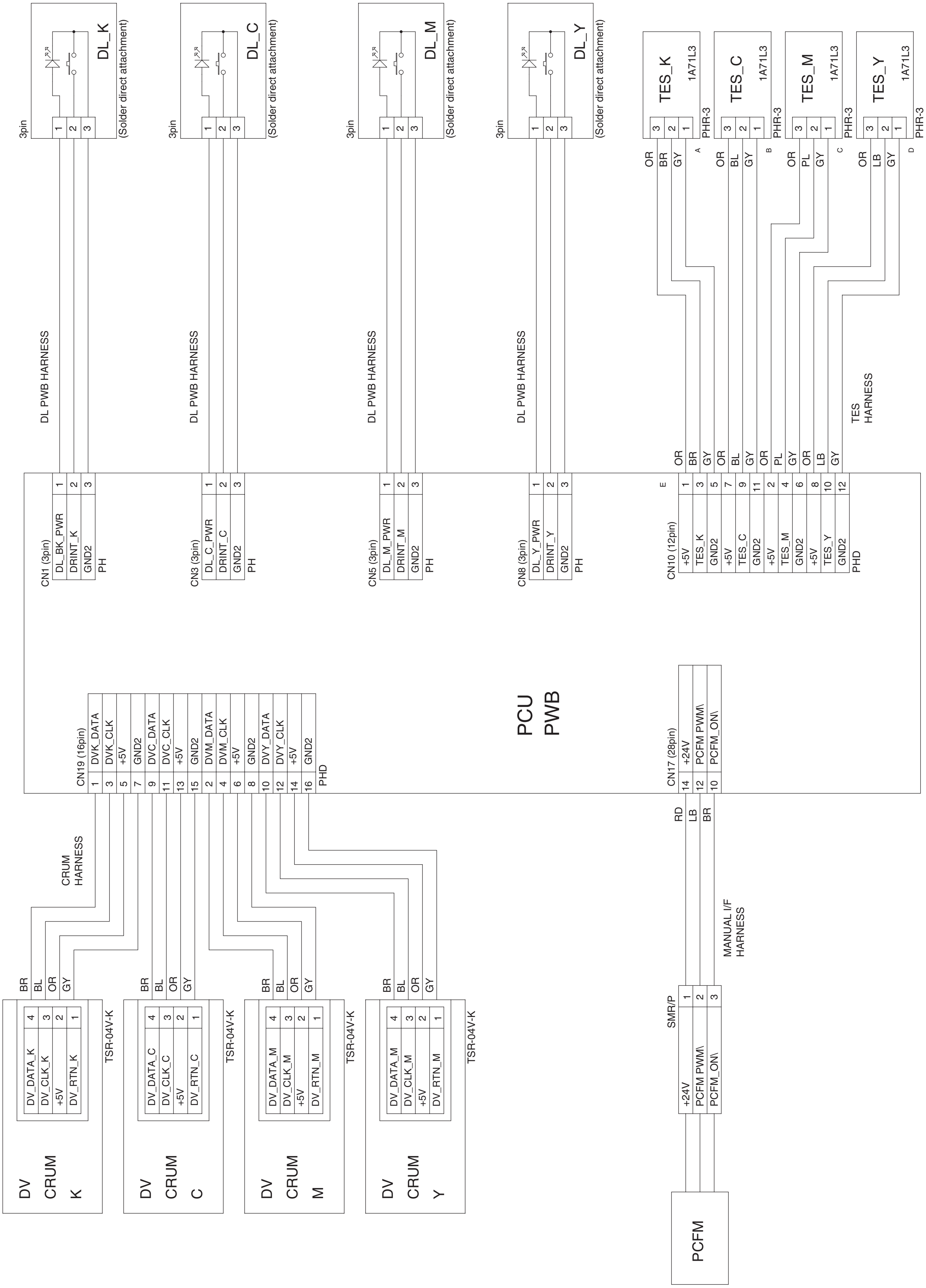
(1) AC CIRCUIT SECTION (EX200) / AC回路部(EX200)


AC PWB
Lin #250(BK)
Nin #250(WH)
INLET HARNESS
INLET EARTH HARNESS
BK
WH
CN3 (5pin)
DH N+
FG
DH L+
XA
DH (paper feed)
ELR/P
Option
MAIN SWITCH HOUSING COLOR
←L(BK)
←N(WH)
ON
OFF
← F R →
RD
WH
BL
AC Lout #250(RD)
AC Nout #250(BL)
RY-L #250(YL)
RY-N #250(GRN)
CN1 (3pin)
+24V
DHPR\
MainPR\
PH
Main SW
MSW HARNESS (200V)
AC CONTROL HARNESS
PSFM
CASSETE GUIDE HARNESS
3pin
SMP/R
DRIVER PWB
CN8 (18pin)
XAD
CN7 (12pin)
+24V1
+24V2
+24V3
+5V2
+5V1
+3.3V2
+3.3V1
GND
FWS
XL
PCU PWB
CN11 (34pin)
+24V(IL)
PSFM PWM\
PSFM_ON\
PHD
CN7 (32pin)
HLPR
HL1
HL2
MSW ON
DC_CNT
TO FUSING SECTION
REACTOR PWB
CN2 (3pin)
CN1 (4pin)
VL
VH
REACTOR HARNESS (200V)
DC HARNESS
AC CONTROL HARNESS
POWER SUPPLY UNIT
FAX-L #250(BK)
AC Lin #250(BK)
RY-L #250(BK)
FAX-N #250(WH)
AC Nin #250(WH)
RY-N #250(WH)
CN4 (3pin)
L
N
CN1 (3pin)
HL1L
HL2L
HL N
L2 #187
L2R #187
CN5 (12pin)
+24V
+5V
+3.3V
GND1
GND2
FWS
HL
CN2 (7pin)
+24V
HLPR
HL1
HL2
MSW ON
DC_CNT
PH

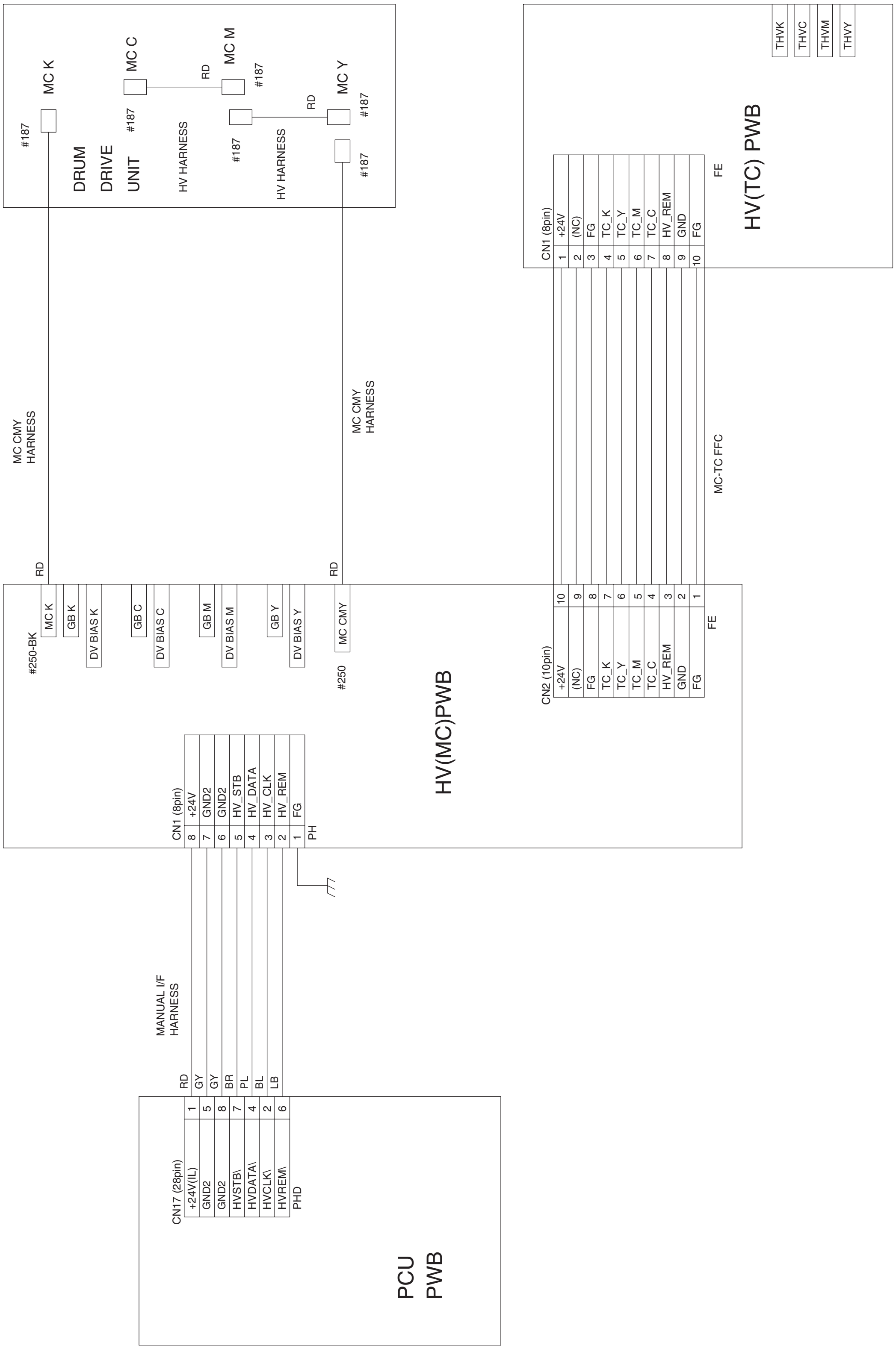
(2) DRUM DRIVE/DSW SECTION / ドラムドライブ/DSW部


DM DRIVE EARTH HARNESS
GY
DRUM DRIVE UNIT
PHR
DM_C
DM_M
DM_Y
DM_K
1 DM_C_B\
2 +24V(IL)
3 DM_C_B
4 DM_C_A
5 +24V(IL)
6 DM_C_A\
1 DM_M_B\
2 +24V(IL)
3 DM_M_B
4 DM_M_A
5 +24V(IL)
6 DM_M_A\
1 DM_Y_B\
2 +24V(IL)
3 DM_Y_B
4 DM_Y_A
5 +24V(IL)
6 DM_Y_A\
1 DM_K_B\
2 +24V(IL)
3 DM_K_B
4 DM_K_A
5 +24V(IL)
6 DM_K_A\
DC HARNESS
6pin
PHNR+BU
B
D
BR RD BL PL RD LB
PK RD BR BL RD PL
E
DRIVER PWB
CN3 (12pin)
4 DM_C_B\
5 +24V(IL)
1 DM_C_B
3 DM_C_A
7 +24V(IL)
2 DM_C_A\
6 DM_M_B\
9 +24V(IL)
10 DM_M_B
12 DM_M_A
11 +24V(IL)
8 DM_M_A\
PHD
CN4 (6pin)
1 DM_Y_B\
2 +24V(IL)
3 DM_Y_B
4 DM_Y_A
5 +24V(IL)
6 DM_Y_A\
PH
CN2 (6pin)
1 DM_K_B\
2 +24V(IL)
3 DM_K_B
4 DM_K_A
5 +24V(IL)
6 DM_K_A\
PH
PCU PWB
+24V2
+24V
+24V(DSWR-IL) (for PFM,PSM)
CN9 (3pin)
3 DSWFout
1 DSWFin
VH
CN8 (20pin)
19 DSWLout
20 DSWLout
6 DSWLin
8 DSWLin
XAD
CN2 (34pin)
1 +24V(IL)
2 +24V(IL)
3 +24V(IL)
4 +24V(IL)
PHD
CN12 (34pin)
1 +24V(IL)
2 +24V(IL)
3 +24V(IL)
4 +24V(IL)
PHD
CN11 (34pin)
34 DSWR
30 DSWRout
PHD
RD
DELIVERY HARNESS
AC CONTROL HARNESS
DRIVER PWB HARNESS
CASSETE GUIDE HARNESS D
8pin
7 8
PFD HARNESS DF11B-DS/DEP
2pin
PS-187-2V
DSWF
DSWL
DSWR

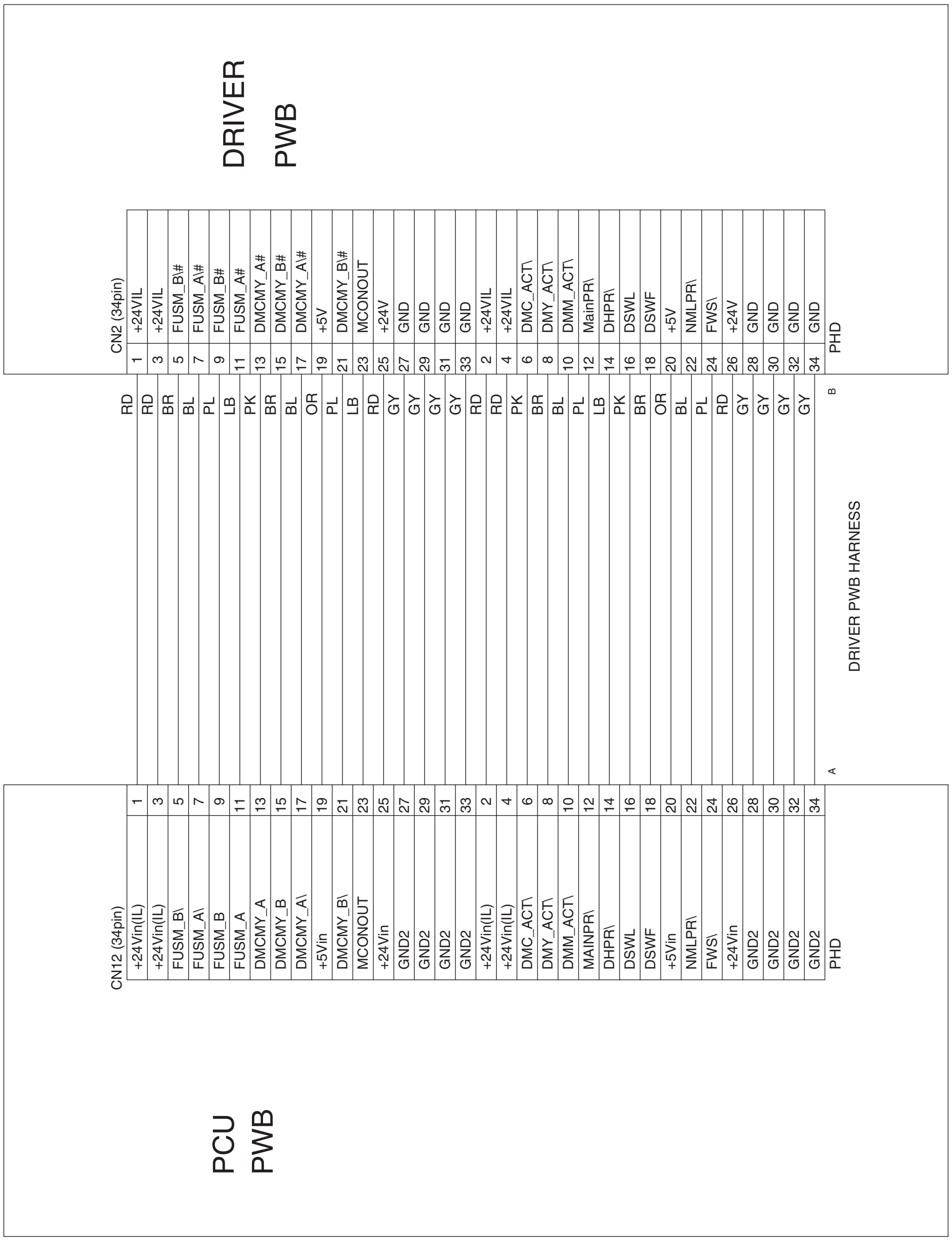
(3) PROCESS SECTION / プロセス部


DL_K
DL_C
DL_M
DL_Y
(Solder direct attachment)
3pin
1
2
3
DL PWB HARNESS
TES_K
TES_C
TES_M
TES_Y
1A71L3
PHR-3
A
B
C
D
OR
BR
GY
BL
PL
LB
TES HARNESS
E
CN1 (3pin)
DL_BK_PWR
DRINT_K
GND2
PH
CN3 (3pin)
DL_C_PWR
DRINT_C
CN5 (3pin)
DL_M_PWR
DRINT_M
CN8 (3pin)
DL_Y_PWR
DRINT_Y
CN10 (12pin)
+5V
TES_K
TES_C
TES_M
TES_Y
PHD
PCU PWB
CN19 (16pin)
DVK_DATA
DVK_CLK
DVC_DATA
DVC_CLK
DVM_DATA
DVM_CLK
DVY_DATA
DVY_CLK
CN17 (28pin)
+24V
PCFM PWM\
PCFM_ON\
RD
CRUM HARNESS
MANUAL I/F HARNESS
SMR/P
TSR-04V-K
DV_DATA_K
DV_CLK_K
DV_RTN_K
DV_DATA_C
DV_CLK_C
DV_RTN_C
DV_DATA_M
DV_CLK_M
DV_RTN_M
DV CRUM K
DV CRUM C
DV CRUM M
DV CRUM Y
PCFM

(4) HIGH VOLTAGE UNIT / 高圧ユニット

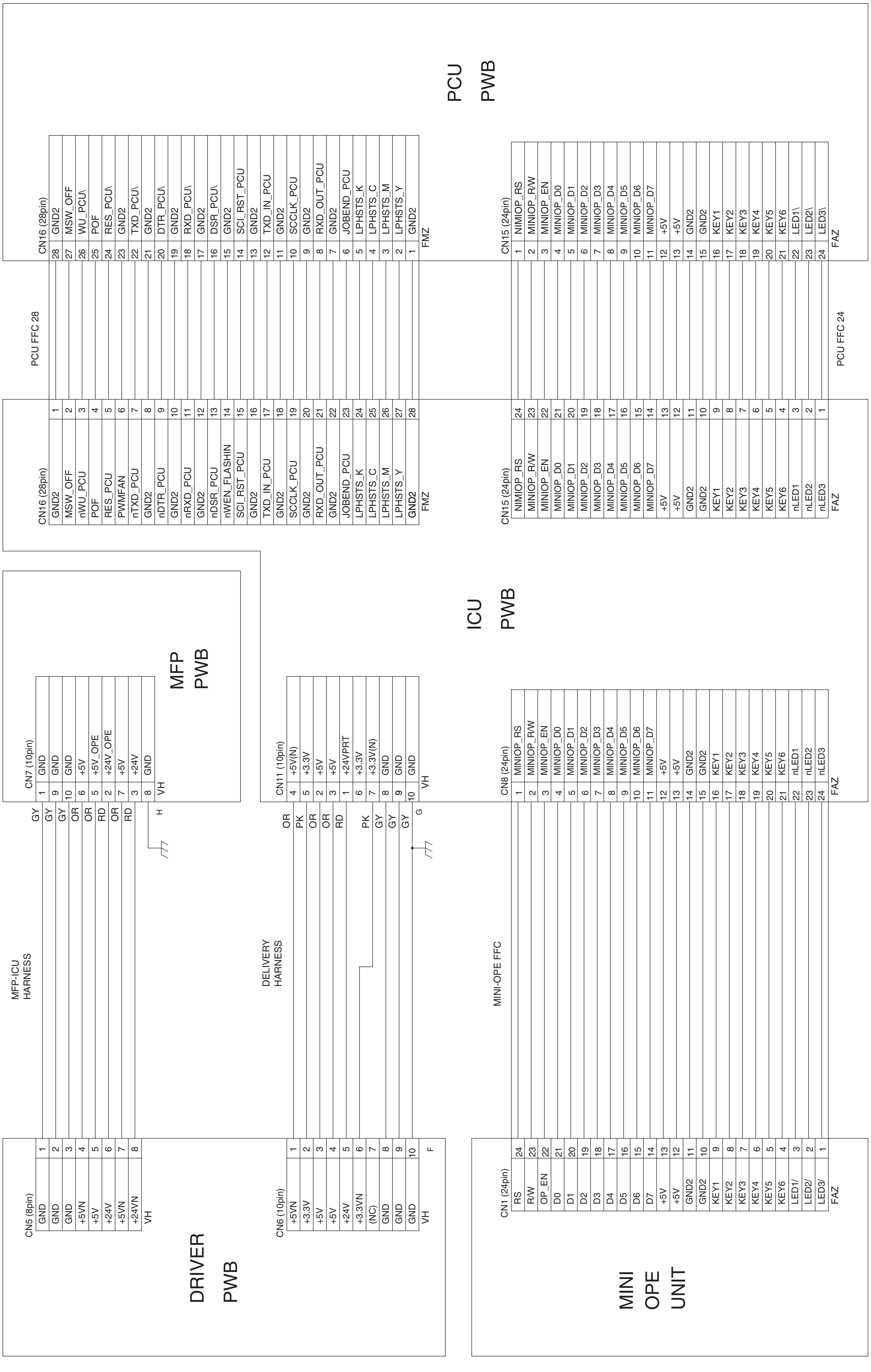

DRUM DRIVE UNIT
MC K
MC C
MC M
MC Y
#187
RD
HV HARNESS
MC CMY HARNESS
HV(TC) PWB
THVK
THVC
THVM
THVY
CN1 (8pin)
1 +24V
2 (NC)
3 FG
4 TC_K
5 TC_Y
6 TC_M
7 TC_C
8 HV_REM
9 GND
10 FG
FE
MC-TC FFC
HV(MC)PWB
#250-BK
#250
GB K
DV BIAS K
GB C
DV BIAS C
GB M
DV BIAS M
GB Y
DV BIAS Y
MC CMY
CN2 (10pin)
+24V
(NC)
FG
TC_K
TC_Y
TC_M
TC_C
HV_REM
GND
FG
CN1 (8pin)
8 +24V
7 GND2
6 GND2
5 HV_STB
4 HV_DATA
3 HV_CLK
2 HV_REM
1 FG
PH
MANUAL I/F HARNESS
RD
GY
GY
BR
PL
BL
LB
CN17 (28pin)
1 +24V(IL)
5 GND2
8 GND2
7 HVSTB\
4 HVDATA\
2 HVCLK\
6 HVREM\
PHD
PCU PWB

(5) PCU-DRIVER SECTION / PCUドライバ部



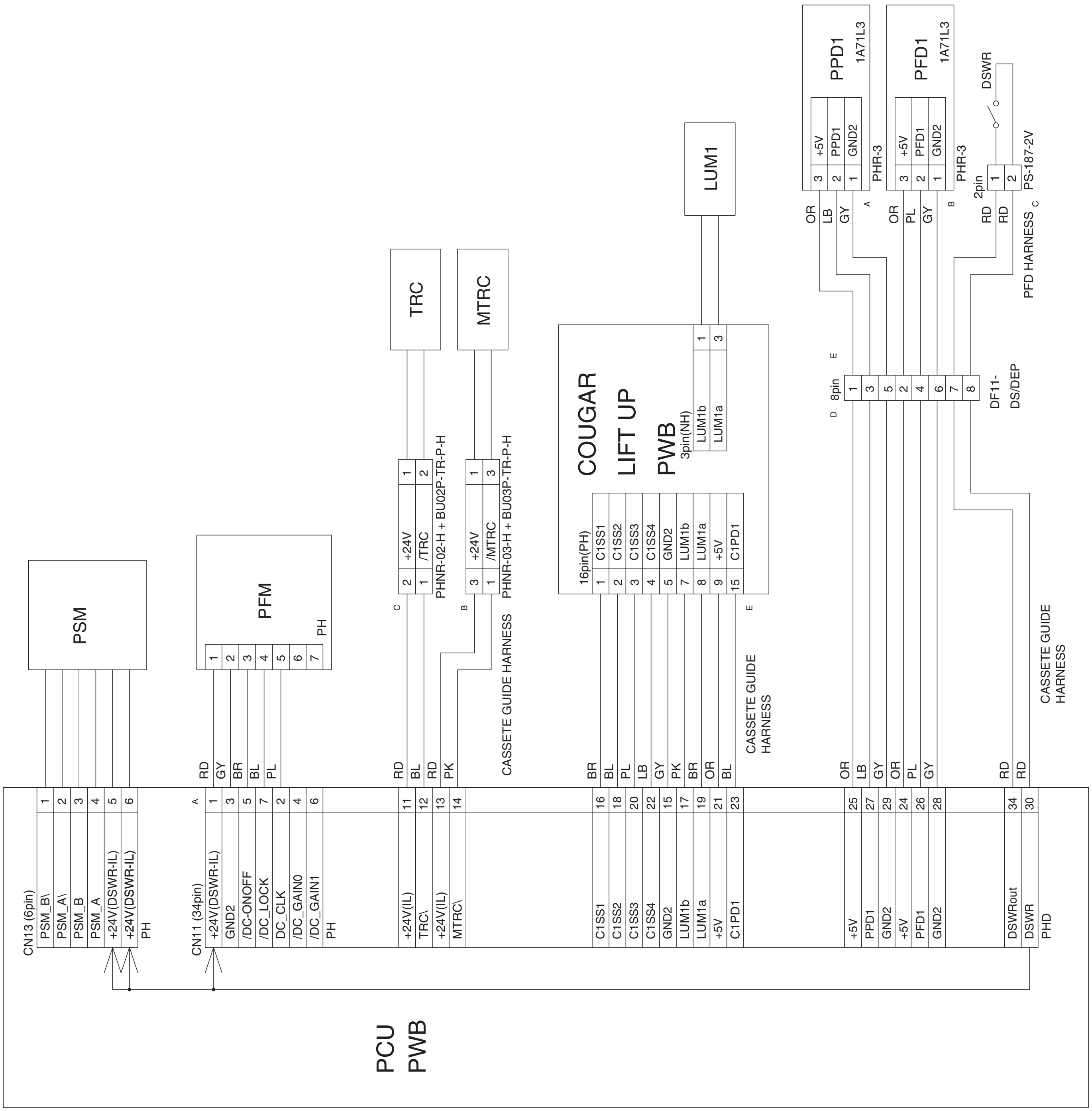
CN2 (34pin) pin	DRIVER PWB signal	Wire	CN12 (34pin) pin	PCU PWB signal
1	+24VIL	RD	1	+24Vin(IL)
3	+24VIL	RD	3	+24Vin(IL)
5	FUSM_B\#	BR	5	FUSM_B\
7	FUSM_A\#	BL	7	FUSM_A\
9	FUSM_B#	PL	9	FUSM_B
11	FUSM_A#	LB	11	FUSM_A
13	DMCMY_A#	PK	13	DMCMY_A
15	DMCMY_B#	BR	15	DMCMY_B
17	DMCMY_A\#	BL	17	DMCMY_A\
19	+5V	OR	19	+5Vin
21	DMCMY_B\#	PL	21	DMCMY_B\
23	MCONOUT	LB	23	MCONOUT
25	+24V	RD	25	+24Vin
27	GND	GY	27	GND2
29	GND	GY	29	GND2
31	GND	GY	31	GND2
33	GND	GY	33	GND2
2	+24VIL	RD	2	+24Vin(IL)
4	+24VIL	RD	4	+24Vin(IL)
6	DMC_ACT\	PK	6	DMC_ACT\
8	DMY_ACT\	BR	8	DMY_ACT\
10	DMM_ACT\	BL	10	DMM_ACT\
12	MainPR\	PL	12	MAINPR\
14	DHPR\	LB	14	DHPR\
16	DSWL	PK	16	DSWL
18	DSWF	BR	18	DSWF
20	+5V	OR	20	+5Vin
22	NMLPR\	BL	22	NMLPR\
24	FWS\	PL	24	FWS\
26	+24V	RD	26	+24Vin
28	GND	GY	28	GND2
30	GND	GY	30	GND2
32	GND	GY	32	GND2
34	GND	GY	34	GND2

(6) PCU-ICU / MINI-OPE SECTION / PCU-ICU / ミニオペ部

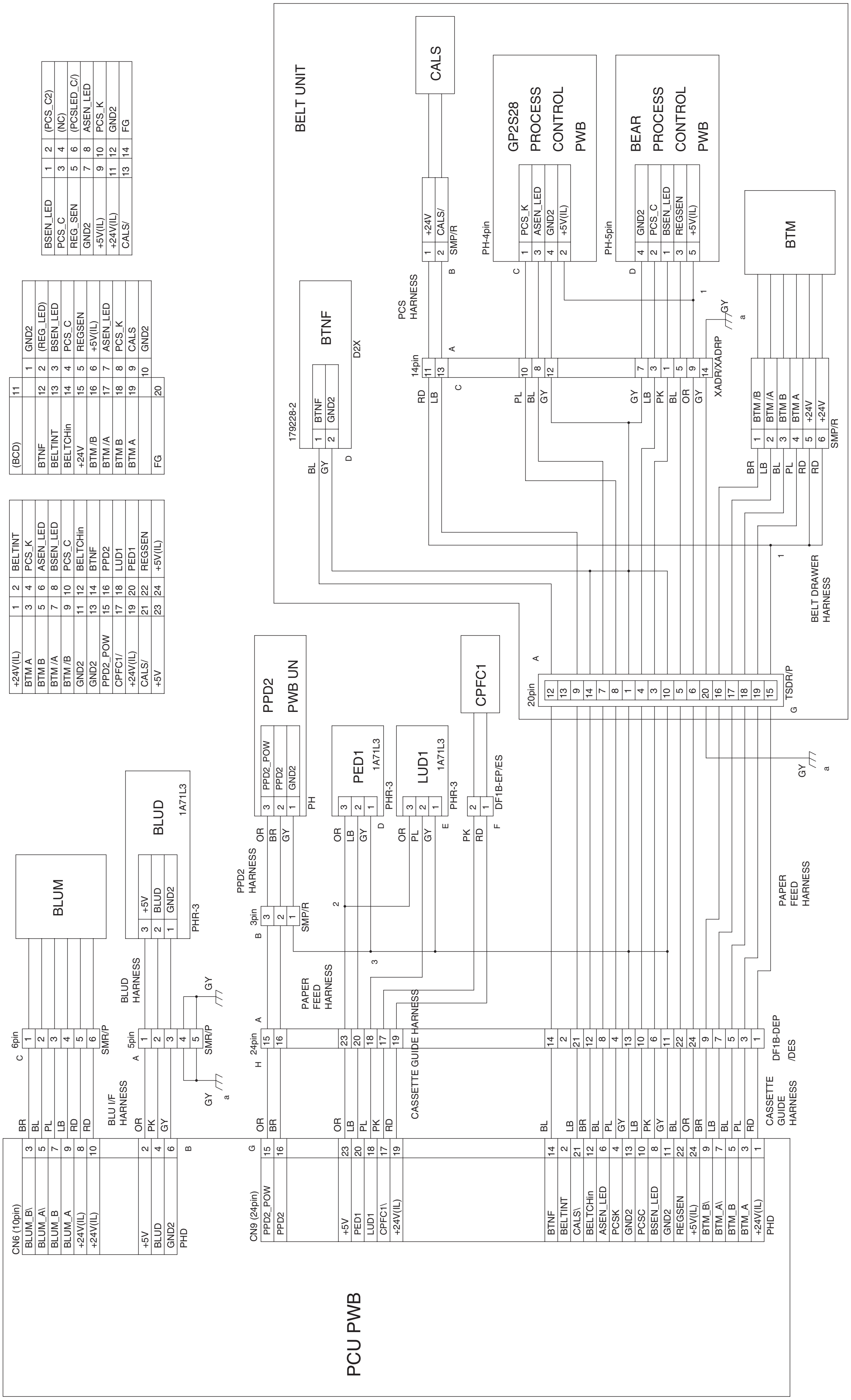


PCU PWB
CN16 (28pin)
28 GND2, 27 MSW_OFF, 26 WU_PCU\, 25 POF, 24 RES_PCU\, 23 GND2, 22 TXD_PCU\, 21 GND2, 20 DTR_PCU\, 19 GND2, 18 RXD_PCU\, 17 GND2, 16 DSR_PCU\, 15 GND2, 14 SCI_RST_PCU, 13 GND2, 12 TXD_IN_PCU, 11 GND2, 10 SCCLK_PCU, 9 GND2, 8 RXD_OUT_PCU, 7 GND2, 6 JOBEND_PCU, 5 LPHSTS_K, 4 LPHSTS_C, 3 LPHSTS_M, 2 LPHSTS_Y, 1 GND2
FMZ
CN15 (24pin)
1 NIMIOP_RS, 2 MINIOP_R/W, 3 MINIOP_EN, 4 MINIOP_D0, 5 MINIOP_D1, 6 MINIOP_D2, 7 MINIOP_D3, 8 MINIOP_D4, 9 MINIOP_D5, 10 MINIOP_D6, 11 MINIOP_D7, 12 +5V, 13 +5V, 14 GND2, 15 GND2, 16 KEY1, 17 KEY2, 18 KEY3, 19 KEY4, 20 KEY5, 21 KEY6, 22 LED1\, 23 LED2\, 24 LED3\
FAZ
PCU FFC 28
PCU FFC 24
ICU PWB
CN16 (28pin)
GND2 1, MSW_OFF 2, nWU_PCU 3, POF 4, RES_PCU 5, PWMFAN 6, nTXD_PCU 7, GND2 8, nDTR_PCU 9, GND2 10, nRXD_PCU 11, GND2 12, nDSR_PCU 13, nWEN_FLASHIN 14, SCI_RST_PCU 15, GND2 16, TXD_IN_PCU 17, GND2 18, SCCLK_PCU 19, GND2 20, RXD_OUT_PCU 21, GND2 22, JOBEND_PCU 23, LPHSTS_K 24, LPHSTS_C 25, LPHSTS_M 26, LPHSTS_Y 27, GND2 28
FMZ
CN15 (24pin)
NIMIOP_RS 24, MINIOP_R/W 23, MINIOP_EN 22, MINIOP_D0 21, MINIOP_D1 20, MINIOP_D2 19, MINIOP_D3 18, MINIOP_D4 17, MINIOP_D5 16, MINIOP_D6 15, MINIOP_D7 14, +5V 13, +5V 12, GND2 11, GND2 10, KEY1 9, KEY2 8, KEY3 7, KEY4 6, KEY5 5, KEY6 4, nLED1 3, nLED2 2, nLED3 1
FAZ
MFP PWB
CN7 (10pin)
1 GND, 9 GND, 10 GND, 6 +5V, 5 +5V_OPE, 2 +24V_OPE, 7 +5V, 3 +24V, 8 GND
VH
H
GY, GY, GY, OR, OR, RD, OR, RD
CN11 (10pin)
4 +5V(N), 5 +3.3V, 2 +5V, 3 +5V, 1 +24VPRT, 6 +3.3V, 7 +3.3V(N), 8 GND, 9 GND, 10 GND
VH
G
OR, PK, OR, OR, RD, PK, GY, GY, GY
CN8 (24pin)
1 MINIOP_RS, 2 MINIOP_R/W, 3 MINIOP_EN, 4 MINIOP_D0, 5 MINIOP_D1, 6 MINIOP_D2, 7 MINIOP_D3, 8 MINIOP_D4, 9 MINIOP_D5, 10 MINIOP_D6, 11 MINIOP_D7, 12 +5V, 13 +5V, 14 GND2, 15 GND2, 16 KEY1, 17 KEY2, 18 KEY3, 19 KEY4, 20 KEY5, 21 KEY6, 22 nLED1, 23 nLED2, 24 nLED3
FAZ
MFP-ICU HARNESS
DELIVERY HARNESS
MINI-OPE FFC
DRIVER PWB
CN5 (8pin)
GND 1, GND 2, GND 3, +5VN 4, +5V 5, +24V 6, +5VN 7, +24VN 8
VH
CN6 (10pin)
+5VN 1, +3.3V 2, +5V 3, +5V 4, +24V 5, +3.3VN 6, (NC) 7, GND 8, GND 9, GND 10
VH
F
MINI OPE UNIT
CN1 (24pin)
RS 24, R/W 23, OP_EN 22, D0 21, D1 20, D2 19, D3 18, D4 17, D5 16, D6 15, D7 14, +5V 13, +5V 12, GND2 11, GND2 10, KEY1 9, KEY2 8, KEY3 7, KEY4 6, KEY5 5, KEY6 4, LED1/ 3, LED2/ 2, LED3/ 1
FAZ

(7) TRANSPORT SECTION / 搬送部

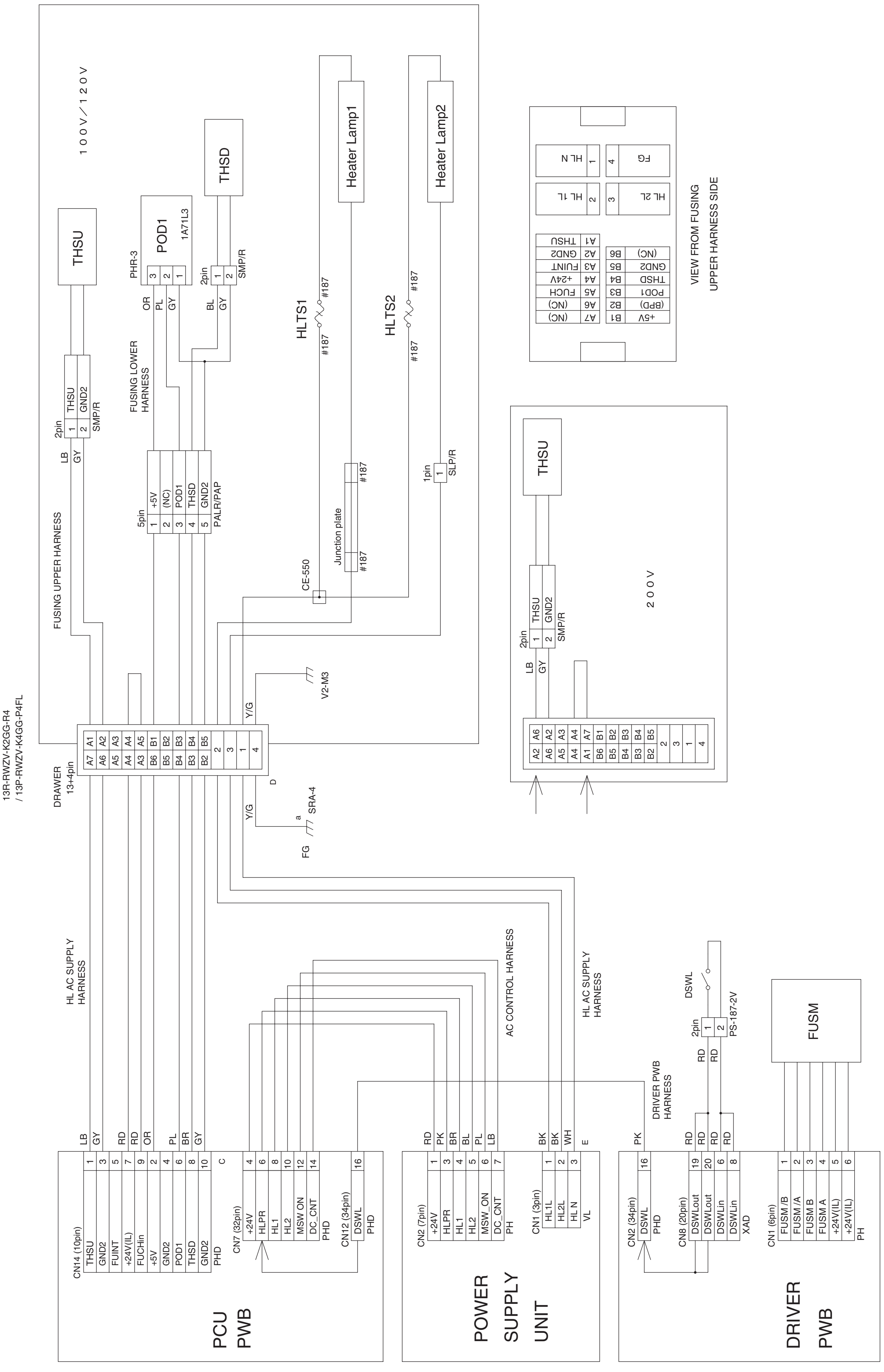

PCU PWB
CN13 (6pin)
PSM_B\
PSM_A\
PSM_B
PSM_A
+24V(DSWR-IL)
+24V(DSWR-IL)
PH
CN11 (34pin)
+24V(DSWR-IL)
GND2
/DC-ONOFF
/DC_LOCK
DC_CLK
/DC_GAIN0
/DC_GAIN1
PH
+24V(IL)
TRC\
+24V(IL)
MTRC\
C1SS1
C1SS2
C1SS3
C1SS4
GND2
LUM1b
LUM1a
+5V
C1PD1
+5V
PPD1
GND2
+5V
PFD1
GND2
DSWRout
DSWR
PHD
PSM
PFM
PH
TRC
MTRC
+24V
/TRC
PHNR-02-H + BU02P-TR-P-H
+24V
/MTRC
PHNR-03-H + BU03P-TR-P-H
CASSETE GUIDE HARNESS
COUGAR LIFT UP PWB
16pin(PH)
3pin(NH)
LUM1b
LUM1a
LUM1
CASSETE GUIDE HARNESS
8pin
DF11-DS/DEP
CASSETE GUIDE HARNESS
PPD1
1A71L3
PHR-3
PFD1
1A71L3
PHR-3
DSWR
2pin
PS-187-2V
PFD HARNESS
RD
GY
BR
BL
PL
PK
LB
OR
A
B
C
D
E

(8) TRANSPORT BELT UNIT / 搬送ベルトユニット

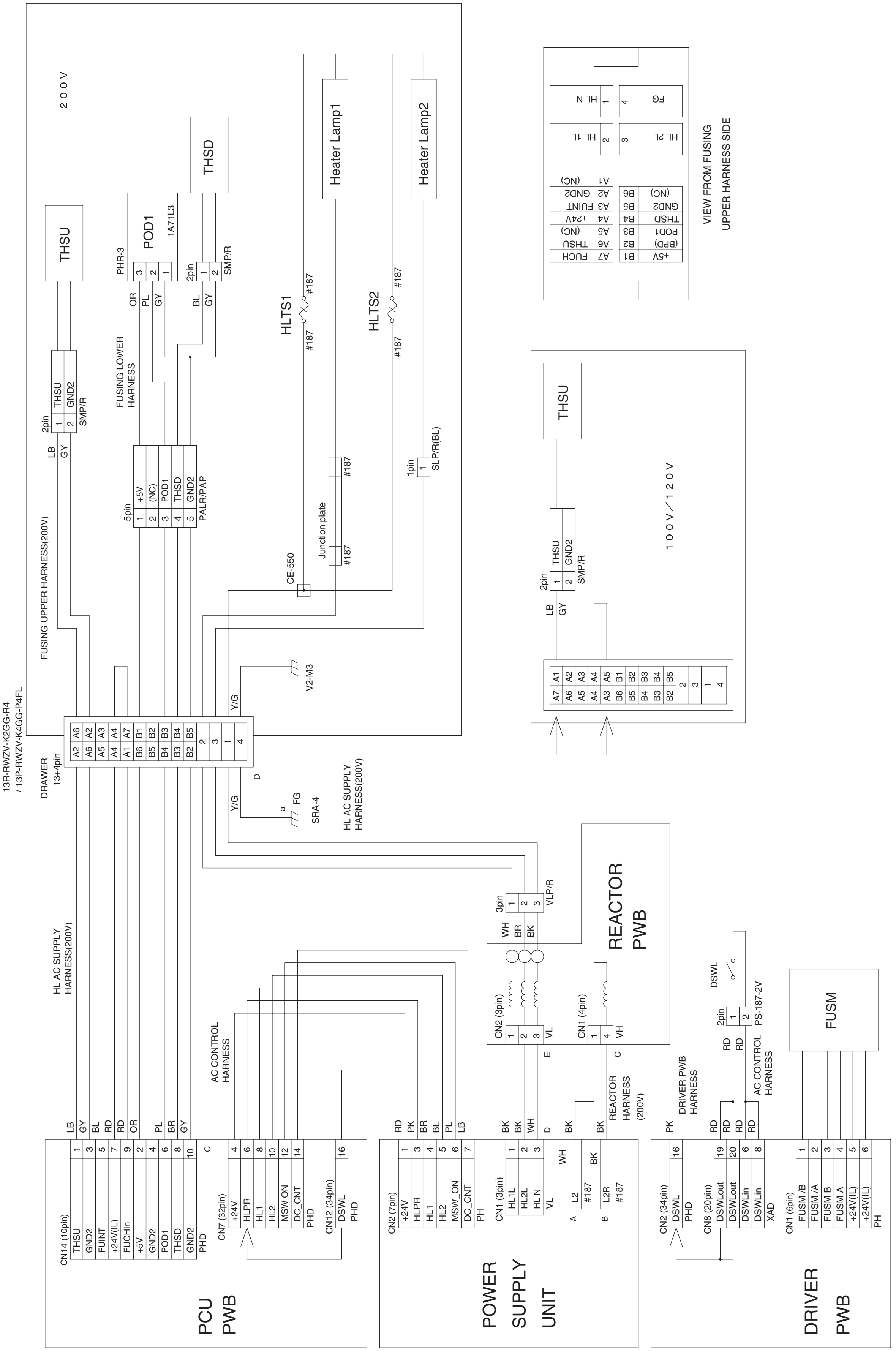


PCU PWB
BELT UNIT
CALS
GP2S28 PROCESS CONTROL PWB
BEAR PROCESS CONTROL PWB
BTM
BTNF
BLUM
BLUD
PPD2 PWB UN
PED1
LUD1
CPFC1
CN6 (10pin)
CN9 (24pin)
PCS HARNESS
BELT DRAWER HARNESS
BLUD HARNESS
BLU I/F HARNESS
PPD2 HARNESS
PAPER FEED HARNESS
CASSETTE GUIDE HARNESS
14pin
20pin
24pin
6pin
5pin
3pin
PH-4pin
PH-5pin
SMP/R
SMR/P
TSDR/P
DF1B-EP/ES
DF1B-DEP /DES
PHR-3
1A71L3
179228-2
D2X
XADR/XADRP

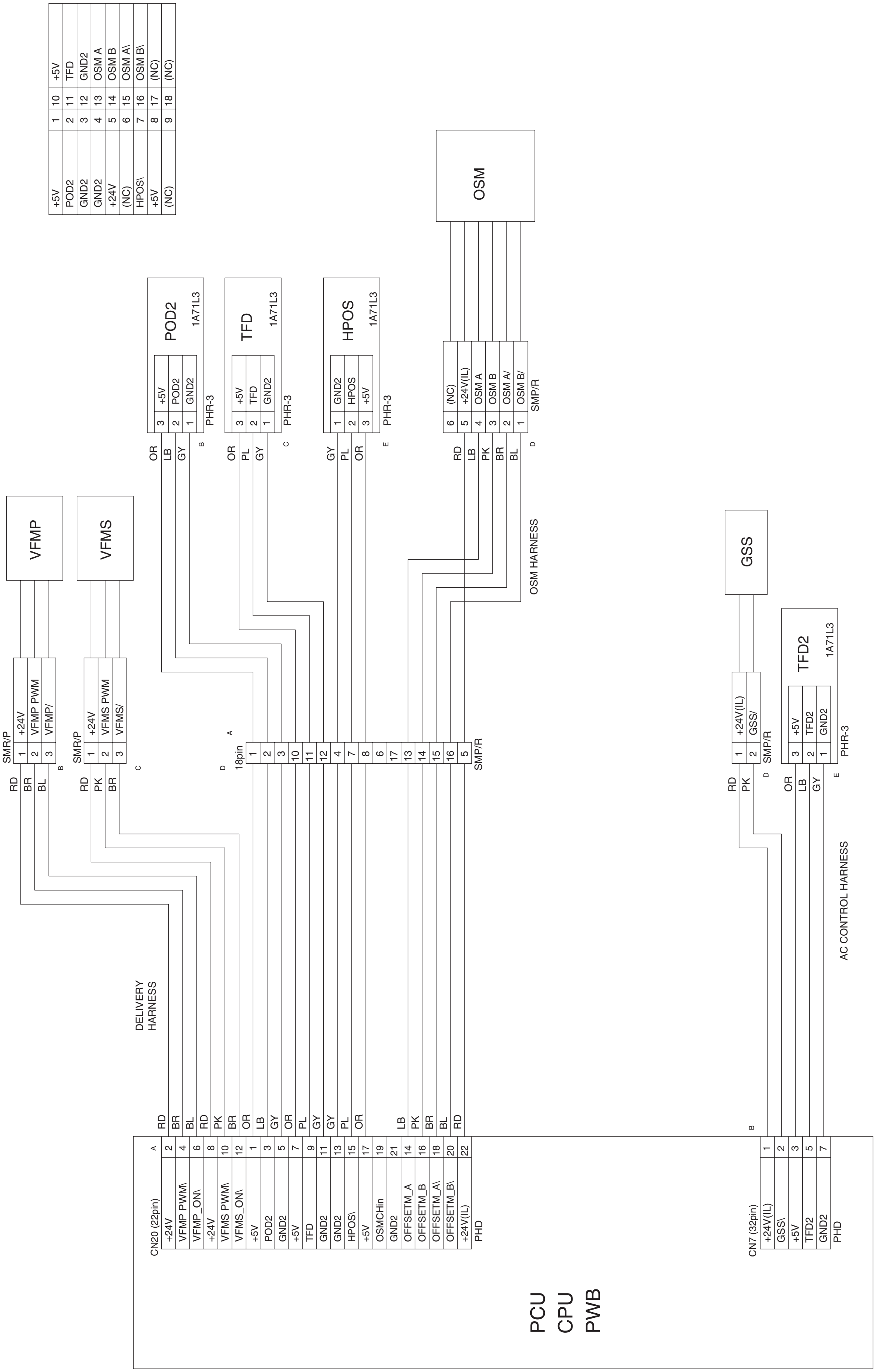
(9) FUSING UNIT (100V) / 定着ユニット(100V)


100V／120V
THSU
POD1
1A71L3
PHR-3
THSD
2pin
SMP/R
Heater Lamp1
Heater Lamp2
HLTS1
HLTS2
#187
OR
PL
GY
BL
FUSING LOWER HARNESS
FUSING UPPER HARNESS
LB
2pin
THSU
GND2
SMP/R
5pin
+5V
(NC)
POD1
THSD
GND2
PALR/PAP
Junction plate
CE-550
1pin
SLP/R
V2-M3
Y/G
13R-RWZV-K2GG-R4
/ 13P-RWZV-K4GG-P4FL
DRAWER
13+4pin
A7 A1
A6 A2
A5 A3
A4 A4
A3 A5
B6 B1
B5 B2
B4 B3
B3 B4
B2 B5
D
a
SRA-4
FG
HL N
FG
HL 1L
HL 2L
A1 THSU
A2 GND2
A3 FUINT
A4 +24V
A5 FUCH
A6 (NC)
A7 (NC)
B6 (NC)
B5 GND2
B4 THSD
B3 POD1
B2 (BPD)
B1 +5V
VIEW FROM FUSING
UPPER HARNESS SIDE
THSU
200V
HL AC SUPPLY HARNESS
AC CONTROL HARNESS
HL AC SUPPLY HARNESS
DRIVER PWB HARNESS
DSWL
2pin
PS-187-2V
RD
FUSM
LB GY RD RD OR PL BR GY
C
CN14 (10pin)
THSU
GND2
FUINT
+24V(IL)
FUCHin
+5V
GND2
POD1
THSD
GND2
PHD
CN7 (32pin)
+24V
HLPR
HL1
HL2
MSW ON
DC_CNT
PHD
CN12 (34pin)
DSWL
PHD
PCU PWB
RD PK BR BL PL LB
CN2 (7pin)
+24V
HLPR
HL1
HL2
MSW_ON
DC_CNT
PH
BK BK WH
E
CN1 (3pin)
HL1L
HL2L
HL N
VL
POWER SUPPLY UNIT
PK
CN2 (34pin)
DSWL
PHD
CN8 (20pin)
DSWLout
DSWLout
DSWLin
DSWLin
XAD
CN1 (6pin)
FUSM /B
FUSM /A
FUSM B
FUSM A
+24V(IL)
+24V(IL)
PH
DRIVER PWB

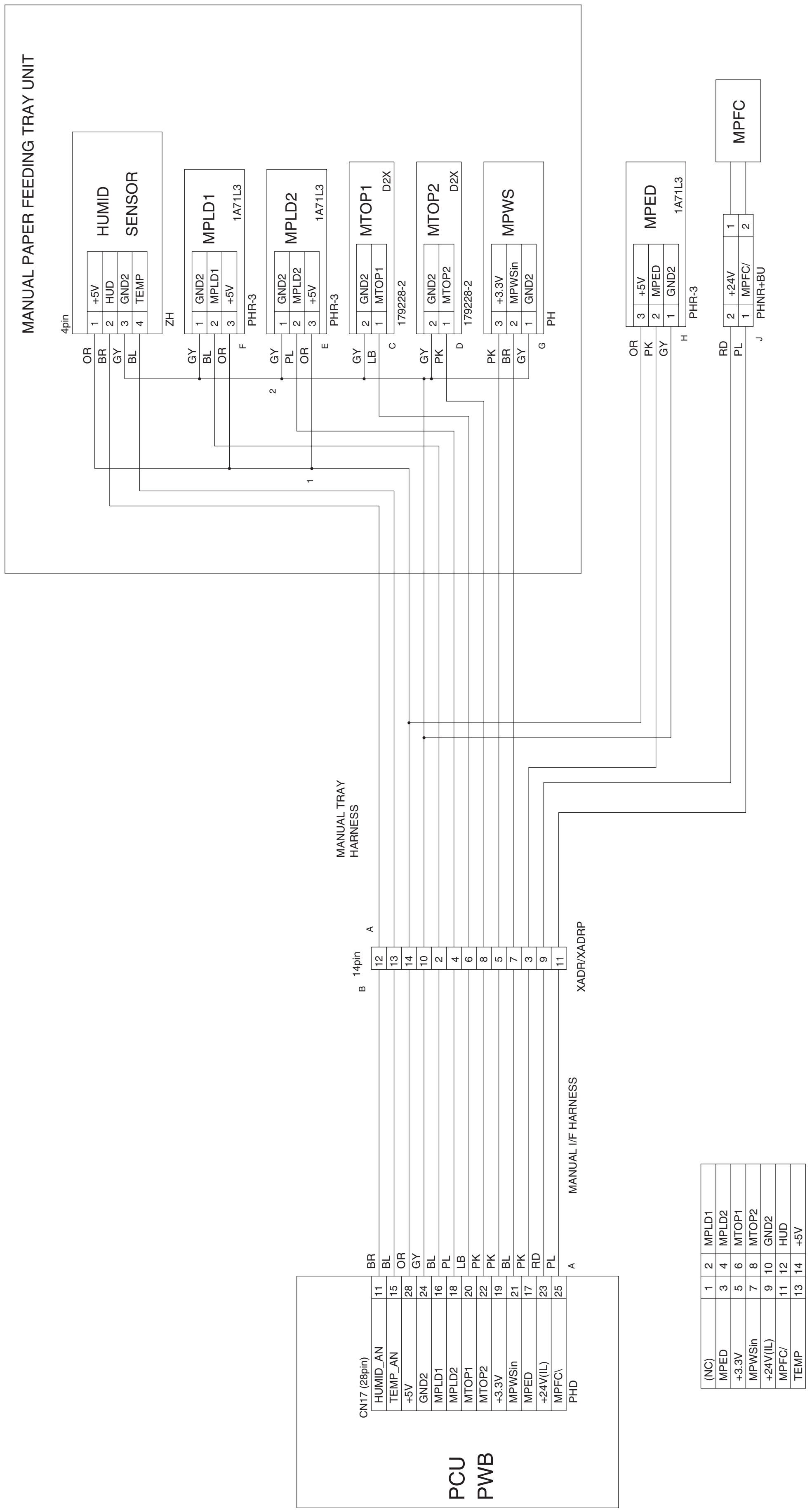
(9) FUSING UNIT (200V) / 定着ユニット(200V)


200V
THSU
POD1
1A71L3
PHR-3
THSD
Heater Lamp1
Heater Lamp2
HLTS1
HLTS2
#187
FUSING LOWER HARNESS
FUSING UPPER HARNESS(200V)
Junction plate
CE-550
SMP/R
PALR/PAP
SLP/R(BL)
V2-M3
SRA-4
FG
Y/G
DRAWER 13+4pin
13R-RWZV-K2GG-R4 / 13P-RWZV-K4GG-P4FL
HL AC SUPPLY HARNESS(200V)
AC CONTROL HARNESS
REACTOR PWB
REACTOR HARNESS (200V)
DRIVER PWB HARNESS
VLP/R
DSWL
PS-187-2V
FUSM
100V/120V
VIEW FROM FUSING UPPER HARNESS SIDE
FUCH
THSU
(NC)
+24V
FUINT
GND2
+5V
(BPD)
POD1
THSD
HL 1L
HL 2L
HL N
FG
PCU PWB
CN14 (10pin)
CN7 (32pin)
CN12 (34pin)
POWER SUPPLY UNIT
CN2 (7pin)
CN1 (3pin)
CN2 (3pin)
CN1 (4pin)
DRIVER PWB
CN2 (34pin)
CN8 (20pin)
CN1 (6pin)
HLPR
HL1
HL2
MSW ON
DC_CNT
PHD
PH
HL1L
HL2L
HL N
VL
VH
L2
L2R
DSWLout
DSWLin
XAD
FUSM /B
FUSM /A
FUSM B
FUSM A
+24V(IL)
FUCHin

(10) DELIVERY SECTION / デリバリー部

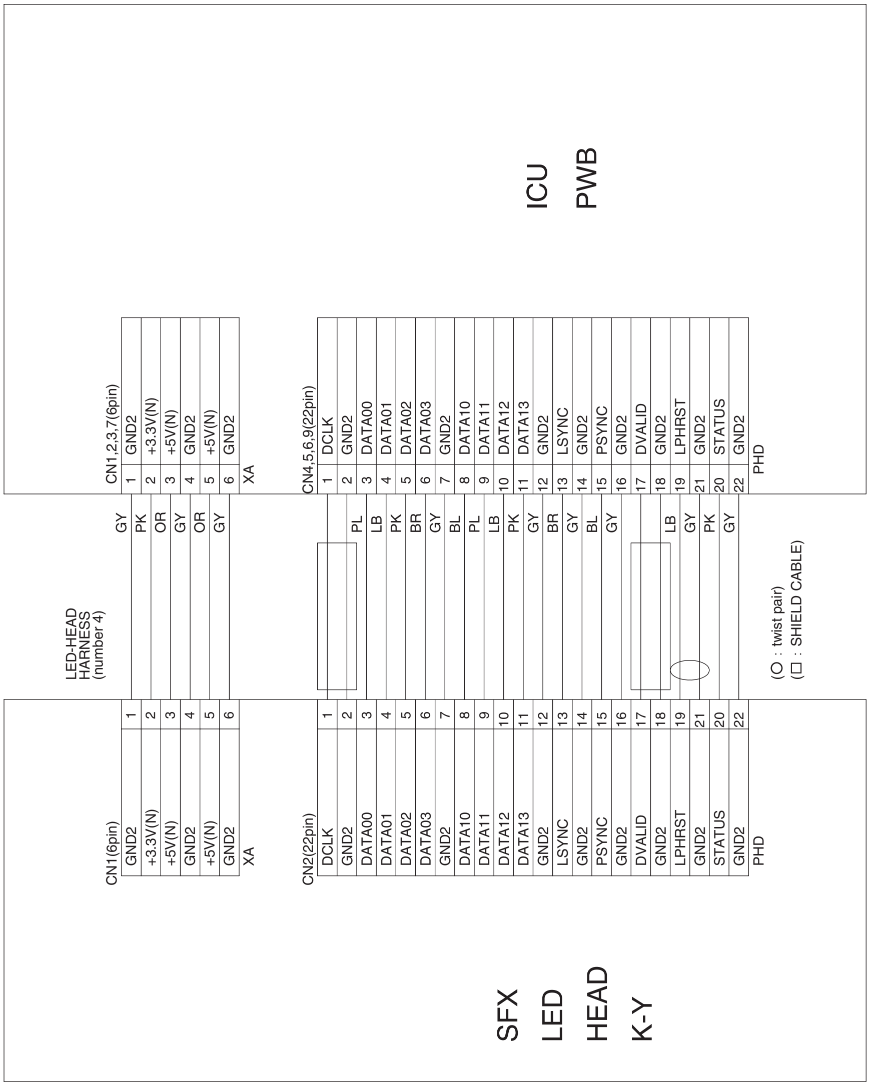

+5V
POD2
GND2
GND2
+24V
(NC)
HPOS\
+5V
(NC)
+5V
TFD
GND2
OSM A
OSM B
OSM A\
OSM B\
(NC)
(NC)
OSM
POD2
TFD
HPOS
1A71L3
PHR-3
(NC)
+24V(IL)
OSM A
OSM B
OSM A/
OSM B/
SMP/R
OSM HARNESS
VFMP
VFMS
SMR/P
+24V
VFMP PWM
VFMP/
VFMS PWM
VFMS/
18pin
SMP/R
GSS
+24V(IL)
GSS/
TFD2
AC CONTROL HARNESS
DELIVERY HARNESS
RD
BR
BL
PK
OR
LB
GY
PL
CN20 (22pin)
VFMP PWM\
VFMP_ON\
VFMS PWM\
VFMS_ON\
HPOS\
OSMCHin
OFFSETM_A
OFFSETM_B
OFFSETM_A\
OFFSETM_B\
PHD
CN7 (32pin)
GSS\
PCU
CPU
PWB

(11) MANUAL PAPER FEEDING / 手差し給紙部

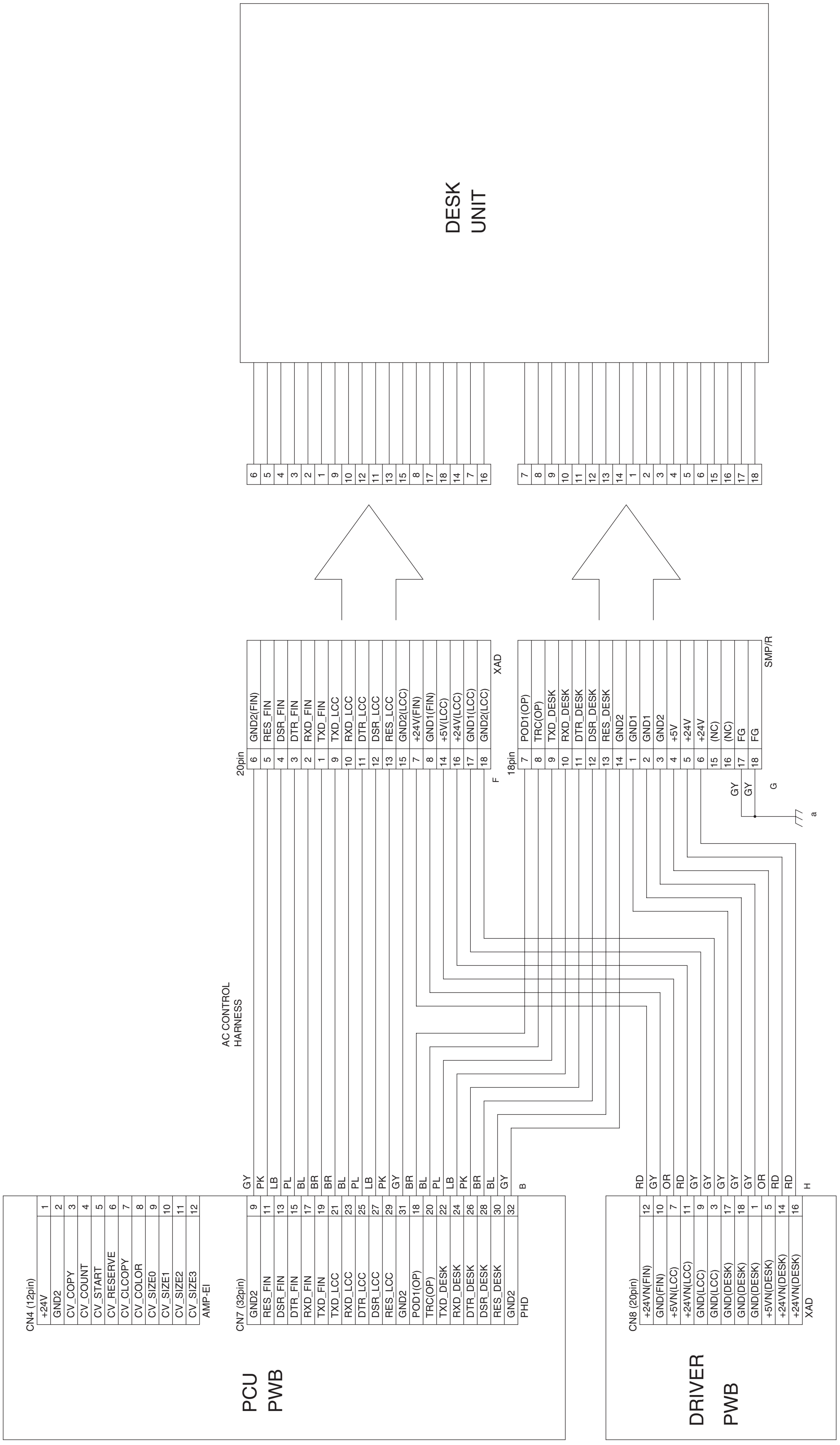

MANUAL PAPER FEEDING TRAY UNIT
HUMID SENSOR
4pin
1 +5V
2 HUD
3 GND2
4 TEMP
ZH
OR BR GY BL
MPLD1
1A71L3
1 GND2
2 MPLD1
3 +5V
PHR-3
F
GY BL OR
MPLD2
1A71L3
1 GND2
2 MPLD2
3 +5V
PHR-3
E
GY PL OR
2
1
MTOP1
D2X
2 GND2
1 MTOP1
179228-2
C
GY LB
MTOP2
D2X
2 GND2
1 MTOP2
179228-2
D
GY PK
MPWS
3 +3.3V
2 MPWSin
1 GND2
PH
G
PK BR GY
MPED
1A71L3
3 +5V
2 MPED
1 GND2
PHR-3
H
OR PK GY
MPFC
1
2
2 +24V
1 MPFC/
PHNR+BU
J
RD PL
MANUAL TRAY HARNESS
A
B
14pin
12 13 14 10 2 4 6 8 5 7 3 9 11
XADR/XADRP
MANUAL I/F HARNESS
BR BL OR GY BL PL LB PK PK BL PK RD PL
A
CN17 (28pin)
11 HUMID_AN
15 TEMP_AN
28 +5V
24 GND2
16 MPLD1
18 MPLD2
20 MTOP1
22 MTOP2
19 +3.3V
21 MPWSin
17 MPED
23 +24V(IL)
25 MPFC\
PHD
PCU PWB

(NC)	1	2	MPLD1
MPED	3	4	MPLD2
+3.3V	5	6	MTOP1
MPWSin	7	8	MTOP2
+24V(IL)	9	10	GND2
MPFC/	11	12	HUD
TEMP	13	14	+5V

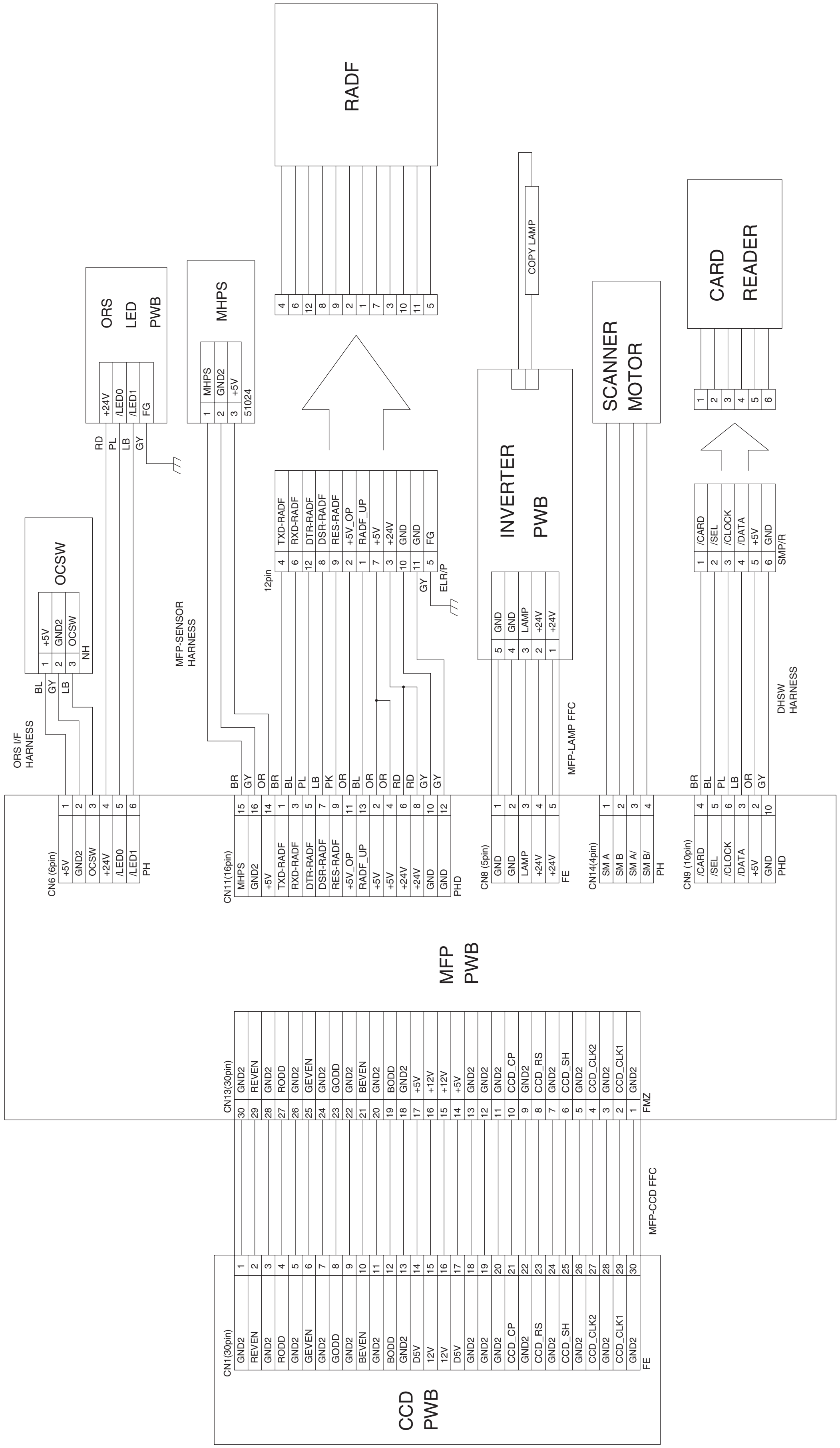
(12) LED-HEAD SECTION / LEDヘッド部


ICU
PWB
CN1,2,3,7(6pin)
1 GND2
2 +3.3V(N)
3 +5V(N)
4 GND2
5 +5V(N)
6 GND2
XA
CN4,5,6,9(22pin)
1 DCLK
2 GND2
3 DATA00
4 DATA01
5 DATA02
6 DATA03
7 GND2
8 DATA10
9 DATA11
10 DATA12
11 DATA13
12 GND2
13 LSYNC
14 GND2
15 PSYNC
16 GND2
17 DVALID
18 GND2
19 LPHRST
21 GND2
20 STATUS
22 GND2
PHD
GY
PK
OR
GY
OR
GY
PL
LB
PK
BR
GY
BL
PL
LB
PK
GY
BR
GY
BL
GY
LB
GY
PK
GY
LED-HEAD
HARNESS
(number 4)
(○ : twist pair)
(□ : SHIELD CABLE)
CN1(6pin)
1 GND2
2 +3.3V(N)
3 +5V(N)
4 GND2
5 +5V(N)
6 GND2
XA
CN2(22pin)
1 DCLK
2 GND2
3 DATA00
4 DATA01
5 DATA02
6 DATA03
7 GND2
8 DATA10
9 DATA11
10 DATA12
11 DATA13
12 GND2
13 LSYNC
14 GND2
15 PSYNC
16 GND2
17 DVALID
18 GND2
19 LPHRST
21 GND2
20 STATUS
22 GND2
PHD
SFX
LED
HEAD
K-Y

(13) OPTION UNIT / オプションユニット

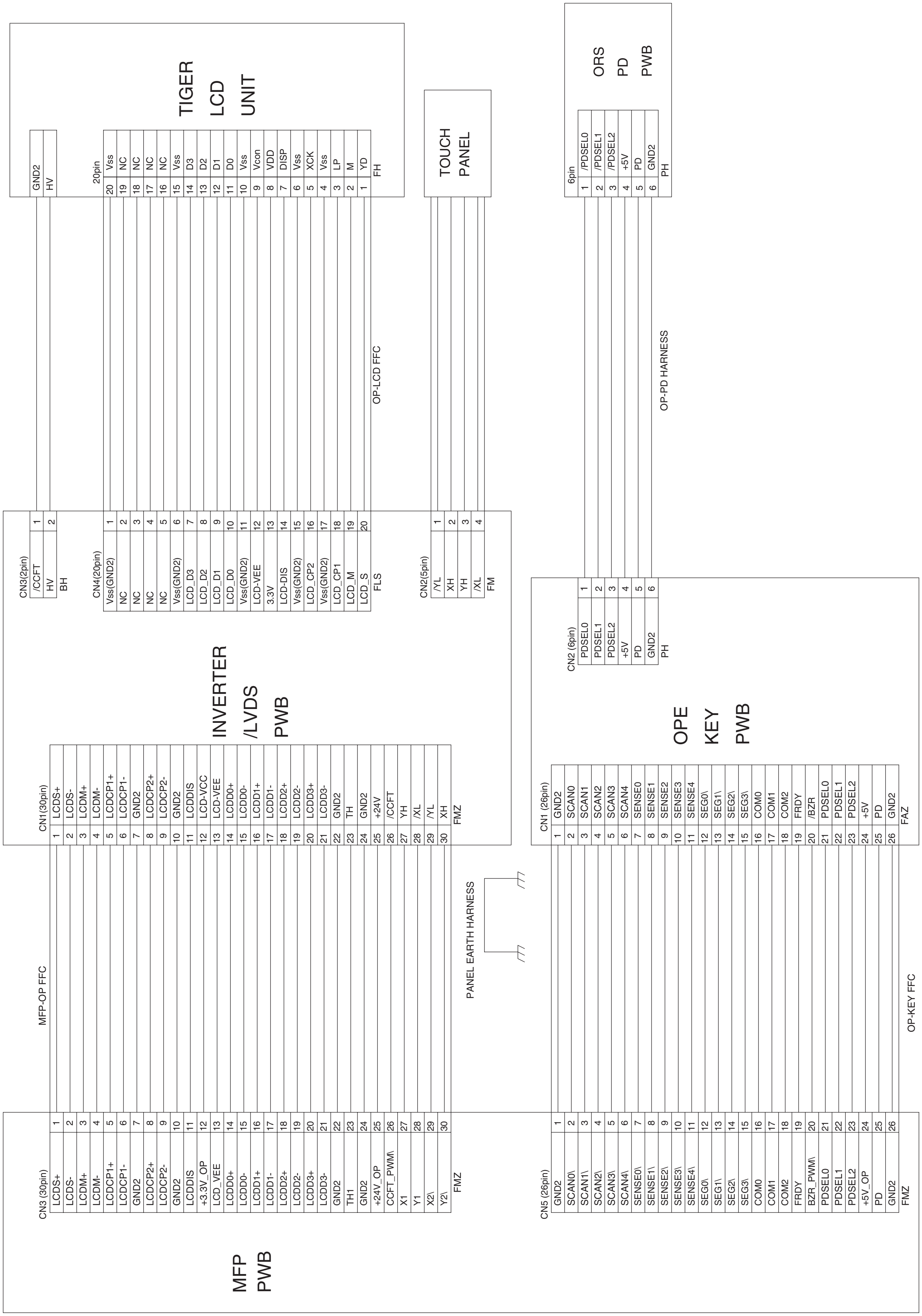

DESK UNIT
6 5 4 3 2 1 9 10 12 11 13 15 8 17 18 14 7 16
7 8 9 10 11 12 13 14 1 2 3 4 5 6 15 16 17 18
20pin
6 GND2(FIN)
5 RES_FIN
4 DSR_FIN
3 DTR_FIN
2 RXD_FIN
1 TXD_FIN
9 TXD_LCC
10 RXD_LCC
11 DTR_LCC
12 DSR_LCC
13 RES_LCC
15 GND2(LCC)
7 +24V(FIN)
8 GND1(FIN)
14 +5V(LCC)
16 +24V(LCC)
17 GND1(LCC)
18 GND2(LCC)
XAD
F
18pin
7 POD1(OP)
8 TRC(OP)
9 TXD_DESK
10 RXD_DESK
11 DTR_DESK
12 DSR_DESK
13 RES_DESK
14 GND2
1 GND1
2 GND1
3 GND2
4 +5V
5 +24V
6 +24V
15 (NC)
16 (NC)
17 FG
18 FG
SMP/R
GY GY G
a
AC CONTROL HARNESS
GY PK LB PL BL BR BR BL PL LB PK GY BR BL PL LB PK BR BL GY B
RD GY OR RD GY GY GY GY GY OR RD RD H
CN4 (12pin)
1 +24V
2 GND2
3 CV_COPY
4 CV_COUNT
5 CV_START
6 CV_RESERVE
7 CV_CLCOPY
8 CV_COLOR
9 CV_SIZE0
10 CV_SIZE1
11 CV_SIZE2
12 CV_SIZE3
AMP-EI
CN7 (32pin)
9 GND2
11 RES_FIN
13 DSR_FIN
15 DTR_FIN
17 RXD_FIN
19 TXD_FIN
21 TXD_LCC
23 RXD_LCC
25 DTR_LCC
27 DSR_LCC
29 RES_LCC
31 GND2
18 POD1(OP)
20 TRC(OP)
22 TXD_DESK
24 RXD_DESK
26 DTR_DESK
28 DSR_DESK
30 RES_DESK
32 GND2
PHD
PCU PWB
CN8 (20pin)
12 +24VN(FIN)
10 GND(FIN)
7 +5VN(LCC)
11 +24VN(LCC)
9 GND(LCC)
3 GND(LCC)
17 GND(DESK)
18 GND(DESK)
1 GND(DESK)
5 +5VN(DESK)
14 +24VN(DESK)
16 +24VN(DESK)
XAD
DRIVER PWB

(14) MFP SECTION / MFP部

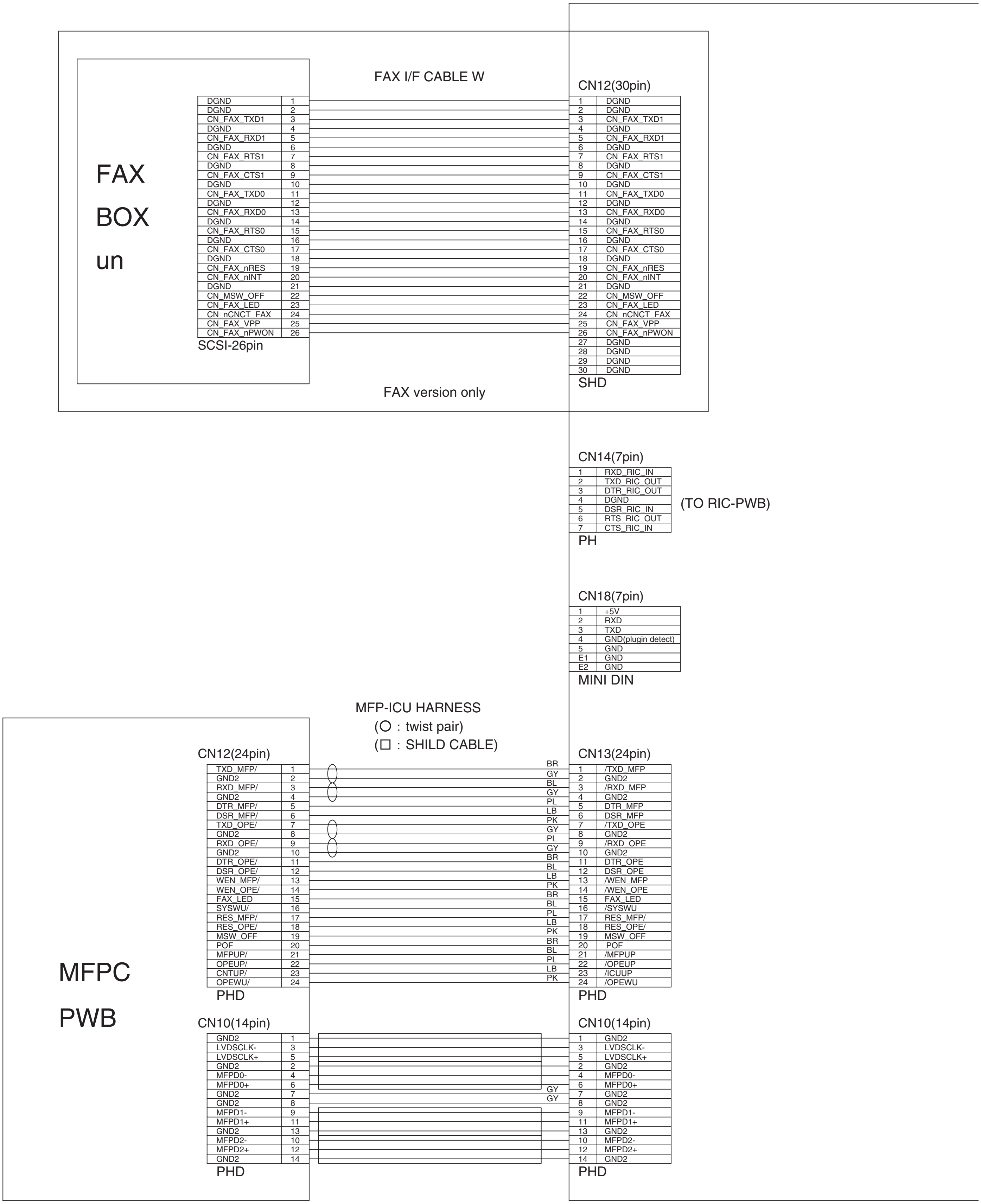


RADF
COPY LAMP
CARD READER
ORS LED PWB
+24V /LED0 /LED1 FG
RD PL LB GY
MHPS
1 MHPS 2 GND2 3 +5V 51024
4 6 12 8 9 2 1 7 3 10 11 5
SCANNER MOTOR
1 2 3 4 5 6
INVERTER PWB
5 GND 4 GND 3 LAMP 2 +24V 1 +24V
OCSW
1 +5V 2 GND2 3 OCSW NH
BL GY LB
12pin
4 TXD-RADF 6 RXD-RADF 12 DTR-RADF 8 DSR-RADF 9 RES-RADF 2 +5V_OP 1 RADF_UP 7 +5V 3 +24V 10 GND 11 GND 5 FG
GY ELR/P
1 /CARD 2 /SEL 3 /CLOCK 4 /DATA 5 +5V 6 GND SMP/R
MFP-SENSOR HARNESS
ORS I/F HARNESS
MFP-LAMP FFC
DHSW HARNESS
CN6 (6pin) 1 +5V 2 GND2 3 OCSW 4 +24V 5 /LED0 6 /LED1 PH
CN11(16pin) 15 MHPS 16 GND2 14 +5V 1 TXD-RADF 3 RXD-RADF 5 DTR-RADF 7 DSR-RADF 9 RES-RADF 11 +5V_OP 13 RADF_UP 2 +5V 4 +5V 6 +24V 8 +24V 10 GND 12 GND PHD
BR GY OR BR BL PL LB PK OR BL OR OR RD RD GY GY
CN8 (5pin) 1 GND 2 GND 3 LAMP 4 +24V 5 +24V FE
CN14(4pin) 1 SM A 2 SM B 3 SM A/ 4 SM B/ PH
CN9 (10pin) 4 /CARD 5 /SEL 6 /CLOCK 3 /DATA 2 +5V 10 GND PHD
BR BL PL LB OR GY
MFP PWB
CN13(30pin) 30 GND2 29 REVEN 28 GND2 27 RODD 26 GND2 25 GEVEN 24 GND2 23 GODD 22 GND2 21 BEVEN 20 GND2 19 BODD 18 GND2 17 +5V 16 +12V 15 +12V 14 +5V 13 GND2 12 GND2 11 GND2 10 CCD_CP 9 GND2 8 CCD_RS 7 GND2 6 CCD_SH 5 GND2 4 CCD_CLK2 3 GND2 2 CCD_CLK1 1 GND2 FMZ
MFP-CCD FFC
CN1(30pin) 1 GND2 2 REVEN 3 GND2 4 RODD 5 GND2 6 GEVEN 7 GND2 8 GODD 9 GND2 10 BEVEN 11 GND2 12 BODD 13 GND2 14 D5V 15 12V 16 12V 17 D5V 18 GND2 19 GND2 20 GND2 21 CCD_CP 22 GND2 23 CCD_RS 24 GND2 25 CCD_SH 26 GND2 27 CCD_CLK2 28 GND2 29 CCD_CLK1 30 GND2 FE
CCD PWB

(15) OPERATION UNIT / オペレーションユニット


TIGER LCD UNIT
GND2
HV
20pin
20 Vss
19 NC
18 NC
17 NC
16 NC
15 Vss
14 D3
13 D2
12 D1
11 D0
10 Vss
9 Vcon
8 VDD
7 DISP
6 Vss
5 XCK
4 Vss
3 LP
2 M
1 YD
FH
TOUCH PANEL
ORS PD PWB
6pin
1 /PDSEL0
2 /PDSEL1
3 /PDSEL2
4 +5V
5 PD
6 GND2
PH
OP-LCD FFC
OP-PD HARNESS
INVERTER /LVDS PWB
CN3(2pin)
/CCFT 1
HV 2
BH
CN4(20pin)
Vss(GND2) 1
NC 2
NC 3
NC 4
NC 5
Vss(GND2) 6
LCD_D3 7
LCD_D2 8
LCD_D1 9
LCD_D0 10
Vss(GND2) 11
LCD-VEE 12
3.3V 13
LCD-DIS 14
Vss(GND2) 15
LCD_CP2 16
Vss(GND2) 17
LCD_CP1 18
LCD_M 19
LCD_S 20
FLS
CN2(5pin)
/YL 1
XH 2
YH 3
/XL 4
FM
CN1(30pin)
1 LCDS+
2 LCDS-
3 LCDM+
4 LCDM-
5 LCDCP1+
6 LCDCP1-
7 GND2
8 LCDCP2+
9 LCDCP2-
10 GND2
11 LCDDIS
12 LCD-VCC
13 LCD-VEE
14 LCDD0+
15 LCDD0-
16 LCDD1+
17 LCDD1-
18 LCDD2+
19 LCDD2-
20 LCDD3+
21 LCDD3-
22 GND2
23 TH
24 GND2
25 +24V
26 /CCFT
27 YH
28 /XL
29 /YL
30 XH
FMZ
OPE KEY PWB
CN2 (6pin)
PDSEL0 1
PDSEL1 2
PDSEL2 3
+5V 4
PD 5
GND2 6
PH
CN1 (26pin)
1 GND2
2 SCAN0
3 SCAN1
4 SCAN2
5 SCAN3
6 SCAN4
7 SENSE0
8 SENSE1
9 SENSE2
10 SENSE3
11 SENSE4
12 SEG0\
13 SEG1\
14 SEG2\
15 SEG3\
16 COM0
17 COM1
18 COM2
19 FRDY
20 /BZR
21 PDSEL0
22 PDSEL1
23 PDSEL2
24 +5V
25 PD
26 GND2
FAZ
MFP-OP FFC
PANEL EARTH HARNESS
OP-KEY FFC
MFP PWB
CN3 (30pin)
LCDS+ 1
LCDS- 2
LCDM+ 3
LCDM- 4
LCDCP1+ 5
LCDCP1- 6
GND2 7
LCDCP2+ 8
LCDCP2- 9
GND2 10
LCDDIS 11
+3.3V_OP 12
LCD_VEE 13
LCDD0+ 14
LCDD0- 15
LCDD1+ 16
LCDD1- 17
LCDD2+ 18
LCDD2- 19
LCDD3+ 20
LCDD3- 21
GND2 22
TH1 23
GND2 24
+24V_OP 25
CCFT_PWM\ 26
X1 27
Y1 28
X2\ 29
Y2\ 30
FMZ
CN5 (26pin)
GND2 1
SCAN0\ 2
SCAN1\ 3
SCAN2\ 4
SCAN3\ 5
SCAN4\ 6
SENSE0\ 7
SENSE1\ 8
SENSE2\ 9
SENSE3\ 10
SENSE4\ 11
SEG0\ 12
SEG1\ 13
SEG2\ 14
SEG3\ 15
COM0 16
COM1 17
COM2 18
FRDY 19
BZR_PWM\ 20
PDSEL0 21
PDSEL1 22
PDSEL2 23
+5V_OP 24
PD 25
GND2 26
FMZ

(16) ICU SECTION / ICU部



FAX BOX un — SCSI-26pin ↔ CN12(30pin) SHD (FAX I/F CABLE W)

SCSI-26pin	Pin	CN12(30pin) Pin	CN12(30pin)
DGND	1	1	DGND
DGND	2	2	DGND
CN_FAX_TXD1	3	3	CN_FAX_TXD1
DGND	4	4	DGND
CN_FAX_RXD1	5	5	CN_FAX_RXD1
DGND	6	6	DGND
CN_FAX_RTS1	7	7	CN_FAX_RTS1
DGND	8	8	DGND
CN_FAX_CTS1	9	9	CN_FAX_CTS1
DGND	10	10	DGND
CN_FAX_TXD0	11	11	CN_FAX_TXD0
DGND	12	12	DGND
CN_FAX_RXD0	13	13	CN_FAX_RXD0
DGND	14	14	DGND
CN_FAX_RTS0	15	15	CN_FAX_RTS0
DGND	16	16	DGND
CN_FAX_CTS0	17	17	CN_FAX_CTS0
DGND	18	18	DGND
CN_FAX_nRES	19	19	CN_FAX_nRES
CN_FAX_nINT	20	20	CN_FAX_nINT
DGND	21	21	DGND
CN_MSW_OFF	22	22	CN_MSW_OFF
CN_FAX_LED	23	23	CN_FAX_LED
CN_nCNCT_FAX	24	24	CN_nCNCT_FAX
CN_FAX_VPP	25	25	CN_FAX_VPP
CN_FAX_nPWON	26	26	CN_FAX_nPWON
		27	DGND
		28	DGND
		29	DGND
		30	DGND

CN14(7pin) PH (TO RIC-PWB)

Pin	Signal
1	RXD_RIC_IN
2	TXD_RIC_OUT
3	DTR_RIC_OUT
4	DGND
5	DSR_RIC_IN
6	RTS_RIC_OUT
7	CTS_RIC_IN

CN18(7pin) MINI DIN

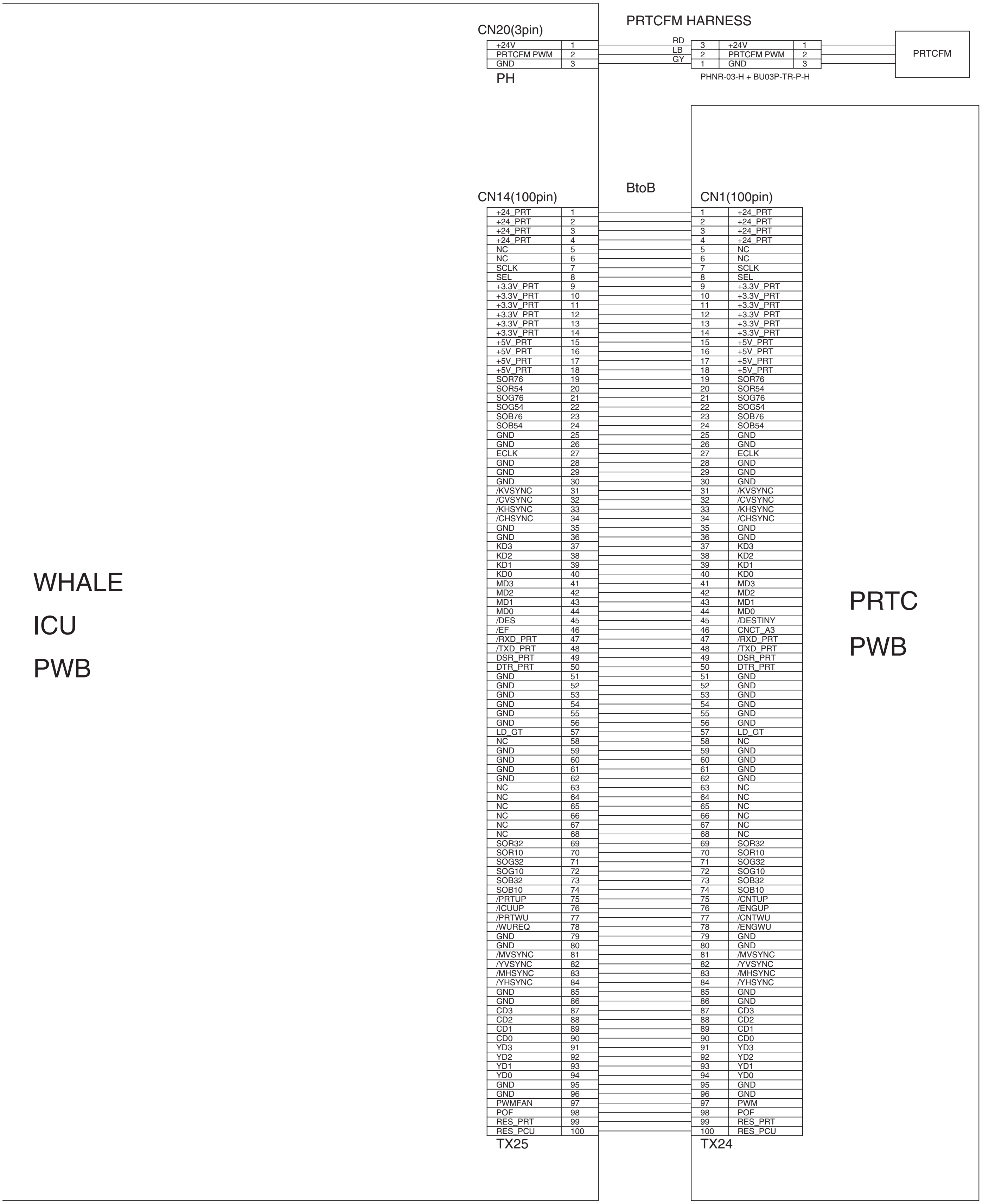
Pin	Signal
1	+5V
2	RXD
3	TXD
4	GND(plugin detect)
5	GND
E1	GND
E2	GND

MFPC PWB CN12(24pin) PHD ↔ CN13(24pin) PHD (MFP-ICU HARNESS)

CN12(24pin)	Pin	Wire	CN13(24pin) Pin	CN13(24pin)
TXD_MFP/	1	BR	1	/TXD_MFP
GND2	2	GY	2	GND2
RXD_MFP/	3	BL	3	/RXD_MFP
GND2	4	GY	4	GND2
DTR_MFP/	5	PL	5	DTR_MFP
DSR_MFP/	6	LB	6	DSR_MFP
TXD_OPE/	7	PK	7	/TXD_OPE
GND2	8	GY	8	GND2
RXD_OPE/	9	PL	9	/RXD_OPE
GND2	10	GY	10	GND2
DTR_OPE/	11	BR	11	DTR_OPE
DSR_OPE/	12	BL	12	DSR_OPE
WEN_MFP/	13	LB	13	/WEN_MFP
WEN_OPE/	14	PK	14	/WEN_OPE
FAX_LED	15	BR	15	FAX_LED
SYSWU/	16	BL	16	/SYSWU
RES_MFP/	17	PL	17	RES_MFP/
RES_OPE/	18	LB	18	RES_OPE/
MSW_OFF	19	PK	19	MSW_OFF
POF	20	BR	20	POF
MFPUP/	21	BL	21	/MFPUP
OPEUP/	22	PL	22	/OPEUP
CNTUP/	23	LB	23	/ICUUP
OPEWU/	24	PK	24	/OPEWU

MFPC PWB CN10(14pin) PHD ↔ CN10(14pin) PHD

CN10(14pin)	Pin	Wire	CN10(14pin) Pin	CN10(14pin)
GND2	1		1	GND2
LVDSCLK-	3		3	LVDSCLK-
LVDSCLK+	5		5	LVDSCLK+
GND2	2		2	GND2
MFPD0-	4		4	MFPD0-
MFPD0+	6		6	MFPD0+
GND2	7	GY	7	GND2
GND2	8	GY	8	GND2
MFPD1-	9		9	MFPD1-
MFPD1+	11		11	MFPD1+
GND2	13		13	GND2
MFPD2-	10		10	MFPD2-
MFPD2+	12		12	MFPD2+
GND2	14		14	GND2



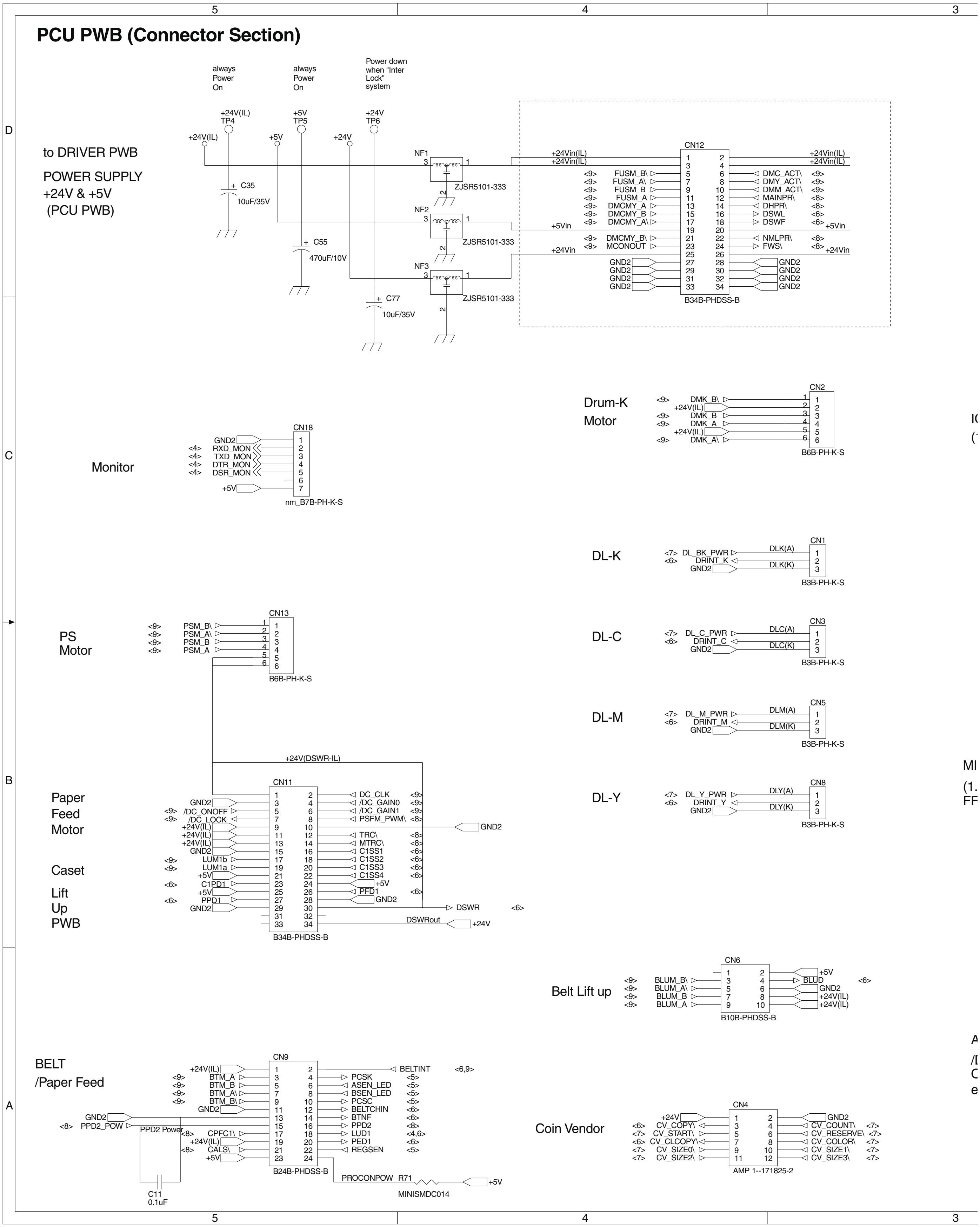
CN20(3pin)					
+24V	1	3	+24V	1	
PRTCFM PWM	2	2	PRTCFM PWM	2	
GND	3	1	GND	3	

CN14(100pin)			CN1(100pin)
+24_PRT	1	1	+24_PRT
+24_PRT	2	2	+24_PRT
+24_PRT	3	3	+24_PRT
+24_PRT	4	4	+24_PRT
NC	5	5	NC
NC	6	6	NC
SCLK	7	7	SCLK
SEL	8	8	SEL
+3.3V_PRT	9	9	+3.3V_PRT
+3.3V_PRT	10	10	+3.3V_PRT
+3.3V_PRT	11	11	+3.3V_PRT
+3.3V_PRT	12	12	+3.3V_PRT
+3.3V_PRT	13	13	+3.3V_PRT
+3.3V_PRT	14	14	+3.3V_PRT
+5V_PRT	15	15	+5V_PRT
+5V_PRT	16	16	+5V_PRT
+5V_PRT	17	17	+5V_PRT
+5V_PRT	18	18	+5V_PRT
SOR76	19	19	SOR76
SOR54	20	20	SOR54
SOG76	21	21	SOG76
SOG54	22	22	SOG54
SOB76	23	23	SOB76
SOB54	24	24	SOB54
GND	25	25	GND
GND	26	26	GND
ECLK	27	27	ECLK
GND	28	28	GND
GND	29	29	GND
GND	30	30	GND
/KVSYNC	31	31	/KVSYNC
/CVSYNC	32	32	/CVSYNC
/KHSYNC	33	33	/KHSYNC
/CHSYNC	34	34	/CHSYNC
GND	35	35	GND
GND	36	36	GND
KD3	37	37	KD3
KD2	38	38	KD2
KD1	39	39	KD1
KD0	40	40	KD0
MD3	41	41	MD3
MD2	42	42	MD2
MD1	43	43	MD1
MD0	44	44	MD0
/DES	45	45	/DESTINY
/EF	46	46	CNCT_A3
/RXD_PRT	47	47	/RXD_PRT
/TXD_PRT	48	48	/TXD_PRT
DSR_PRT	49	49	DSR_PRT
DTR_PRT	50	50	DTR_PRT
GND	51	51	GND
GND	52	52	GND
GND	53	53	GND
GND	54	54	GND
GND	55	55	GND
GND	56	56	GND
LD_GT	57	57	LD_GT
NC	58	58	NC
GND	59	59	GND
GND	60	60	GND
GND	61	61	GND
GND	62	62	GND
NC	63	63	NC
NC	64	64	NC
NC	65	65	NC
NC	66	66	NC
NC	67	67	NC
NC	68	68	NC
SOR32	69	69	SOR32
SOR10	70	70	SOR10
SOG32	71	71	SOG32
SOG10	72	72	SOG10
SOB32	73	73	SOB32
SOB10	74	74	SOB10
/PRTUP	75	75	/CNTUP
/ICUUP	76	76	/ENGUP
/PRTWU	77	77	/CNTWU
/WUREQ	78	78	/ENGWU
GND	79	79	GND
GND	80	80	GND
/MVSYNC	81	81	/MVSYNC
/YVSYNC	82	82	/YVSYNC
/MHSYNC	83	83	/MHSYNC
/YHSYNC	84	84	/YHSYNC
GND	85	85	GND
GND	86	86	GND
CD3	87	87	CD3
CD2	88	88	CD2
CD1	89	89	CD1
CD0	90	90	CD0
YD3	91	91	YD3
YD2	92	92	YD2
YD1	93	93	YD1
YD0	94	94	YD0
GND	95	95	GND
GND	96	96	GND
PWMFAN	97	97	PWM
POF	98	98	POF
RES_PRT	99	99	RES_PRT
RES_PCU	100	100	RES_PCU

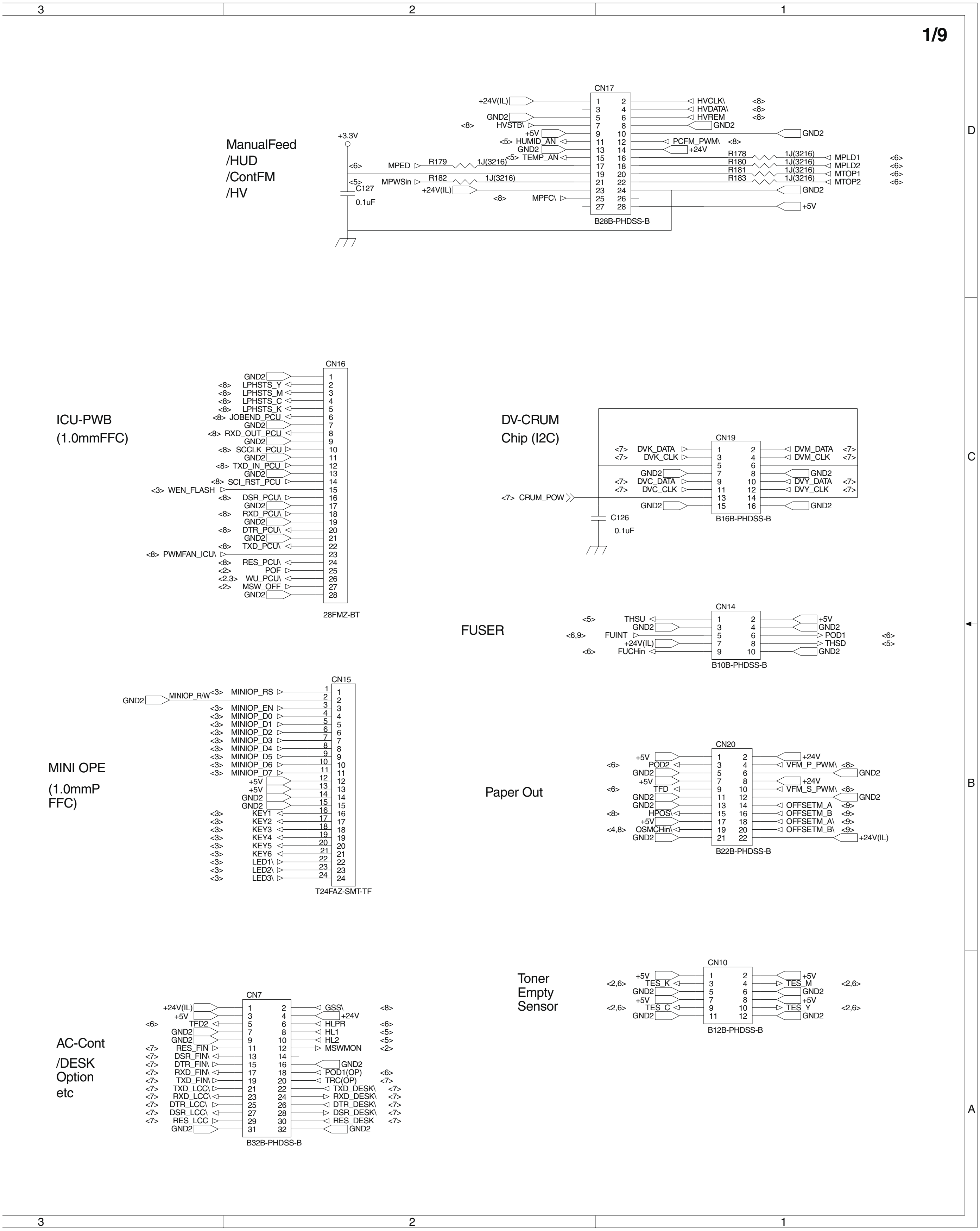
[4] CIRCUIT DIAGRAM AND PARTS LAYOUT / 回路図と部品配置図

A. PCU PWB

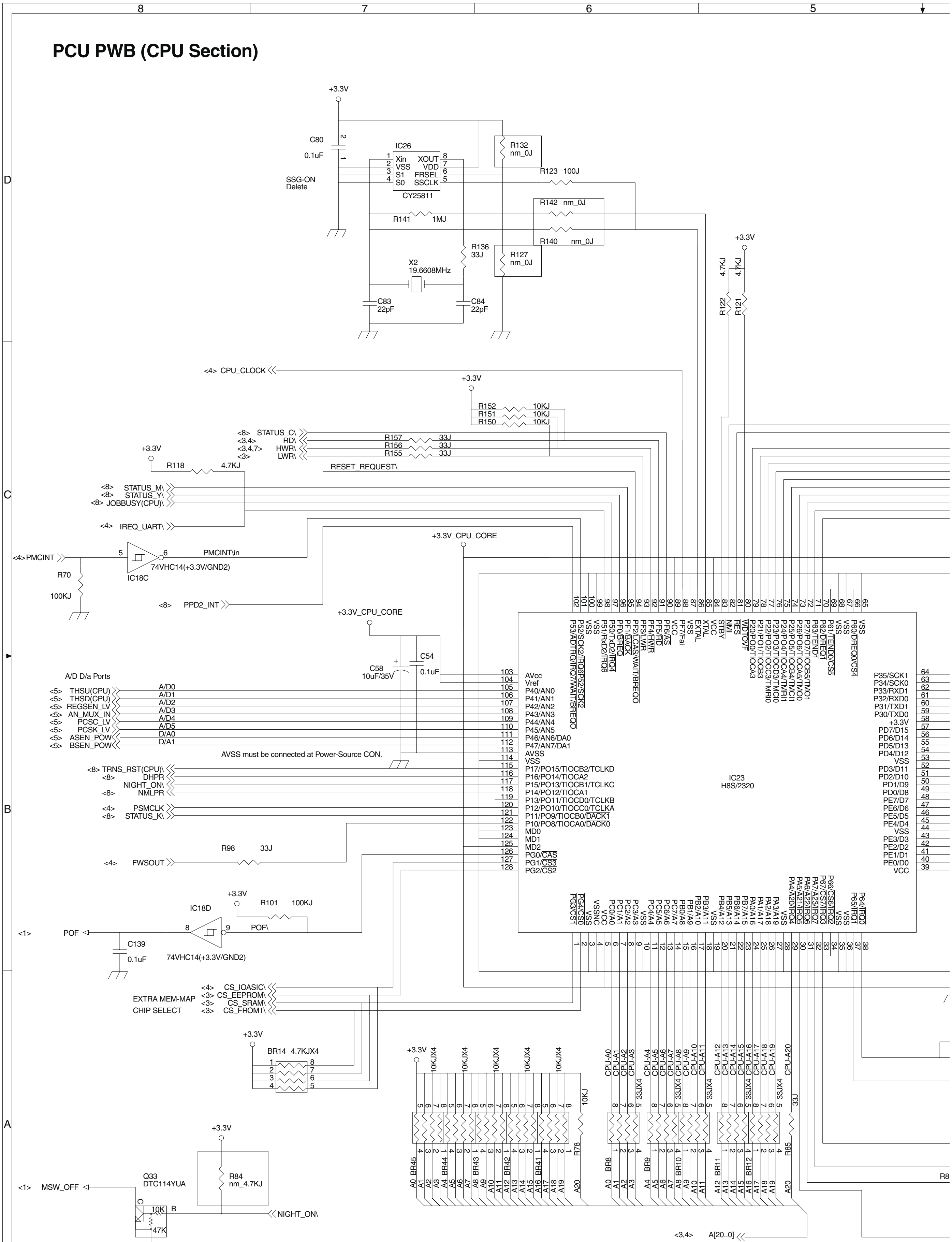
PCU PWB (Connector Section)



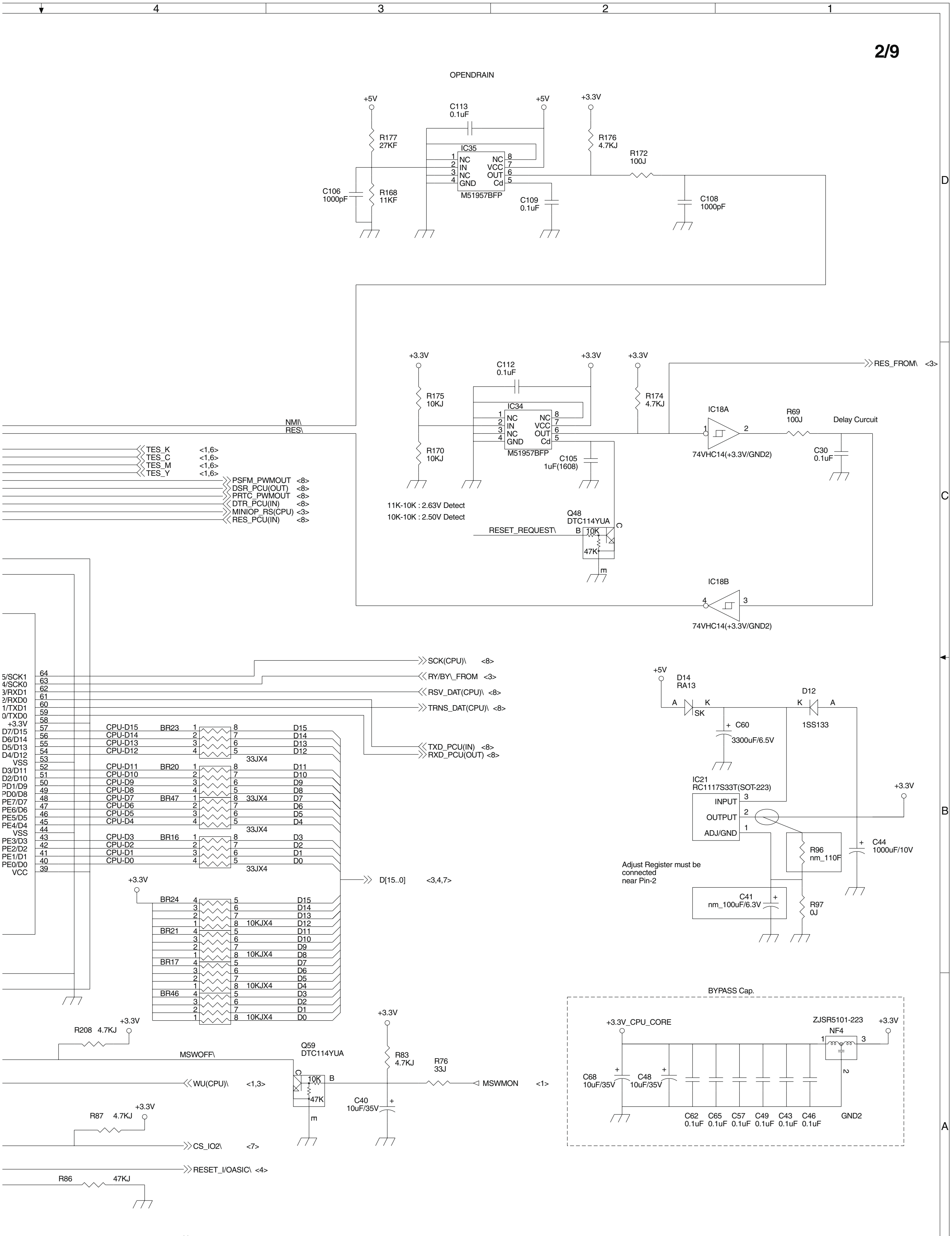
5
4
3
D
C
B
A
always Power On
always Power On
Power down when "Inter Lock" system
+24V(IL) TP4
+5V TP5
+24V TP6
+24V(IL)
+5V
+24V
to DRIVER PWB
POWER SUPPLY +24V & +5V (PCU PWB)
C35 10uF/35V
C55 470uF/10V
C77 10uF/35V
NF1
NF2
NF3
ZJSR5101-333
CN12
+24Vin(IL)
+5Vin
+24Vin
FUSM_B\
FUSM_A\
FUSM_B
FUSM_A
DMCMY_A
DMCMY_B
DMCMY_A\
DMCMY_B\
MCONOUT
GND2
DMC_ACT\
DMY_ACT\
DMM_ACT\
MAINPR\
DHPR\
DSWL
DSWF
NMLPR\
FWS\
B34B-PHDSS-B
Drum-K Motor
CN2
DMK_B\
DMK_B
DMK_A
DMK_A\
B6B-PH-K-S
Monitor
CN18
RXD_MON
TXD_MON
DTR_MON
DSR_MON
nm_B7B-PH-K-S
DL-K
CN1
DL_BK_PWR
DRINT_K
DLK(A)
DLK(K)
B3B-PH-K-S
DL-C
CN3
DL_C_PWR
DRINT_C
DLC(A)
DLC(K)
DL-M
CN5
DL_M_PWR
DRINT_M
DLM(A)
DLM(K)
DL-Y
CN8
DL_Y_PWR
DRINT_Y
DLY(A)
DLY(K)
PS Motor
CN13
PSM_B\
PSM_A\
PSM_B
PSM_A
+24V(DSWR-IL)
Paper Feed Motor
Caset
Lift Up PWB
CN11
/DC_ONOFF
/DC_LOCK
LUM1b
LUM1a
C1PD1
PPD1
DC_CLK
/DC_GAIN0
/DC_GAIN1
PSFM_PWM\
TRC\
MTRC\
C1SS1
C1SS2
C1SS3
C1SS4
PFD1
DSWR
DSWRout
Belt Lift up
CN6
BLUM_B\
BLUM_A\
BLUM_B
BLUM_A
BLUD
B10B-PHDSS-B
BELT /Paper Feed
CN9
BTM_A
BTM_B
BTM_A\
BTM_B\
PPD2_POW
PPD2 Power
CPFC1\
CALS\
BELTINT
PCSK
ASEN_LED
BSEN_LED
PCSC
BELTCHIN
BTNF
PPD2
LUD1
PED1
REGSEN
B24B-PHDSS-B
C11 0.1uF
PROCONPOW R71
MINISMDC014
Coin Vendor
CN4
CV_COPY\
CV_START\
CV_CLCOPY\
CV_SIZE0\
CV_SIZE2\
CV_COUNT\
CV_RESERVE\
CV_COLOR\
CV_SIZE1\
CV_SIZE3\
AMP 1--171825-2


1/9
ManualFeed /HUD /ContFM /HV
CN17
B28B-PHDSS-B
+24V(IL)
GND2
HVSTB\
+5V
HUMID_AN
TEMP_AN
MPED
MPWSin
MPFC\
R179
R182
1J(3216)
C127
0.1uF
+3.3V
HVCLK\
HVDATA\
HVREM
PCFM_PWM\
+24V
R178
R180
R181
R183
MPLD1
MPLD2
MTOP1
MTOP2
+5V
ICU-PWB (1.0mmFFC)
CN16
28FMZ-BT
LPHSTS_Y
LPHSTS_M
LPHSTS_C
LPHSTS_K
JOBEND_PCU
RXD_OUT_PCU
SCCLK_PCU
TXD_IN_PCU
SCI_RST_PCU
WEN_FLASH
DSR_PCU\
RXD_PCU\
DTR_PCU\
TXD_PCU\
PWMFAN_ICU\
RES_PCU\
POF
WU_PCU\
MSW_OFF
DV-CRUM Chip (I2C)
CN19
B16B-PHDSS-B
DVK_DATA
DVK_CLK
DVC_DATA
DVC_CLK
CRUM_POW
DVM_DATA
DVM_CLK
DVY_DATA
DVY_CLK
C126
0.1uF
FUSER
CN14
B10B-PHDSS-B
THSU
FUINT
FUCHin
POD1
THSD
MINI OPE (1.0mmP FFC)
CN15
T24FAZ-SMT-TF
MINIOP_R/W
MINIOP_RS
MINIOP_EN
MINIOP_D0
MINIOP_D1
MINIOP_D2
MINIOP_D3
MINIOP_D4
MINIOP_D5
MINIOP_D6
MINIOP_D7
KEY1
KEY2
KEY3
KEY4
KEY5
KEY6
LED1\
LED2\
LED3\
Paper Out
CN20
B22B-PHDSS-B
POD2
TFD
HPOS\
OSMCHin\
VFM_P_PWM\
VFM_S_PWM\
OFFSETM_A
OFFSETM_B
OFFSETM_A\
OFFSETM_B\
Toner Empty Sensor
CN10
B12B-PHDSS-B
TES_K
TES_C
TES_M
TES_Y
AC-Cont /DESK Option etc
CN7
B32B-PHDSS-B
TFD2
RES_FIN
DSR_FIN\
DTR_FIN\
RXD_FIN\
TXD_FIN\
TXD_LCC\
RXD_LCC\
DTR_LCC\
DSR_LCC\
RES_LCC
GSS\
HLPR
HL1
HL2
MSWMON
POD1(OP)
TRC(OP)
TXD_DESK\
RXD_DESK\
DTR_DESK\
DSR_DESK\
RES_DESK
3
2
1
D
C
B
A

PCU PWB (CPU Section)

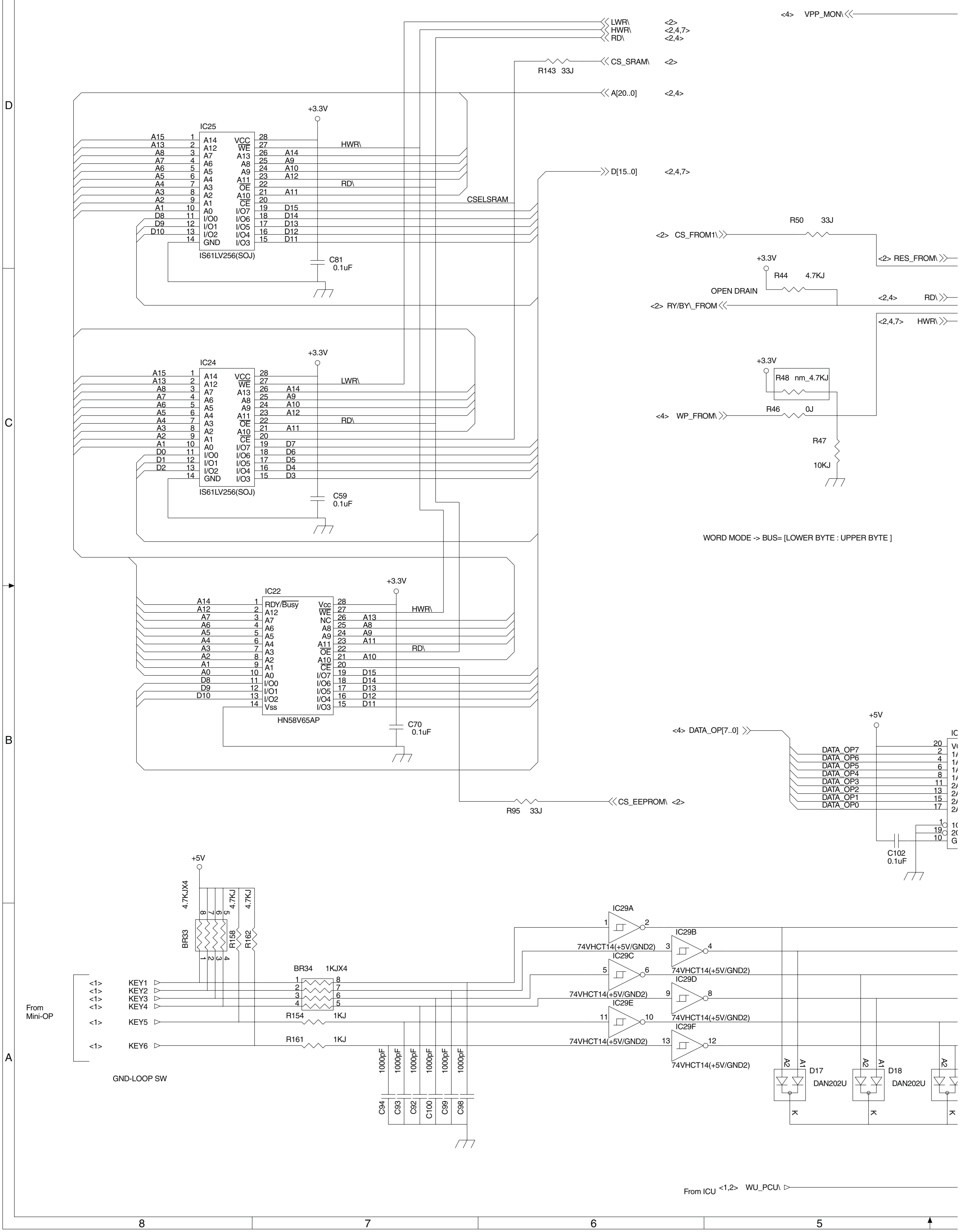


8
7
6
5
D
C
B
A
+3.3V
C80
0.1uF
SSG-ON
Delete
IC26
CY25811
Xin
VSS
S1
S0
XOUT
VDD
FRSEL
SSCLK
R132
nm_0J
R123 100J
R142 nm_0J
R141 1MJ
R140 nm_0J
R136
33J
R127
nm_0J
X2
19.6608MHz
C83
22pF
C84
22pF
R122
R121
4.7KJ
<4> CPU_CLOCK
R152 10KJ
R151 10KJ
R150 10KJ
<8> STATUS_C\
<3,4> RD\
<3,4,7> HWR\
<3> LWR\
R157 33J
R156 33J
R155 33J
R118 4.7KJ
RESET_REQUEST\
<8> STATUS_M\
<8> STATUS_Y\
<8> JOBBUSY(CPU)\
<4> IREQ_UART\
+3.3V_CPU_CORE
<4>PMCINT
PMCINT\in
74VHC14(+3.3V/GND2)
IC18C
R70
100KJ
<8> PPD2_INT
C58
10uF/35V
C54
0.1uF
A/D D/a Ports
<5> THSU(CPU) A/D0
<5> THSD(CPU) A/D1
<5> REGSEN_LV A/D2
<5> AN_MUX_IN A/D3
<5> PCSC_LV A/D4
<5> PCSK_LV A/D5
<5> ASEN_POW D/A0
<5> BSEN_POW D/A1
AVSS must be connected at Power-Source CON.
<8> TRNS_RST(CPU)\
<8> DHPR
NIGHT_ON\
<8> NMLPR
<4> PSMCLK
<8> STATUS_K\
R98 33J
<4> FWSOUT
IC23
H8S/2320
AVcc
Vref
P40/AN0
P41/AN1
P42/AN2
P43/AN3
P44/AN4
P45/AN5
P46/AN6/DA0
P47/AN7/DA1
AVSS
VSS
P17/PO15/TIOCB2/TCLKD
P16/PO14/TIOCA2
P15/PO13/TIOCB1/TCLKC
P14/PO12/TIOCA1
P13/PO11/TIOCD0/TCLKB
P12/PO10/TIOCC0/TCLKA
P11/PO9/TIOCB0/DACK1
P10/PO8/TIOCA0/DACK0
MD0
MD1
MD2
PG0/CAS
PG1/CS3
PG2/CS2
P35/SCK1
P34/SCK0
P33/RXD1
P32/RXD0
P31/TXD1
P30/TXD0
+3.3V
PD7/D15
PD6/D14
PD5/D13
PD4/D12
VSS
PD3/D11
PD2/D10
PD1/D9
PD0/D8
PE7/D7
PE6/D6
PE5/D5
PE4/D4
VSS
PE3/D3
PE2/D2
PE1/D1
PE0/D0
VCC
IC18D
R101 100KJ
POF\
<1> POF
C139
0.1uF
74VHC14(+3.3V/GND2)
<4> CS_IOASIC\
<3> CS_EEPROM\
<3> CS_SRAM\
<3> CS_FROM1\
EXTRA MEM-MAP
CHIP SELECT
BR14 4.7KJX4
10KJX4
BR45
BR44
BR43
BR42
BR41
R78
10KJ
BR8
BR9
BR10
BR11
BR12
33JX4
R85
33J
CPU-A0
CPU-A20
A0
A20
<3,4> A[20..0]
R84
nm_4.7KJ
Q33
DTC114YUA
<1> MSW_OFF
10K
47K
NIGHT_ON\
R8

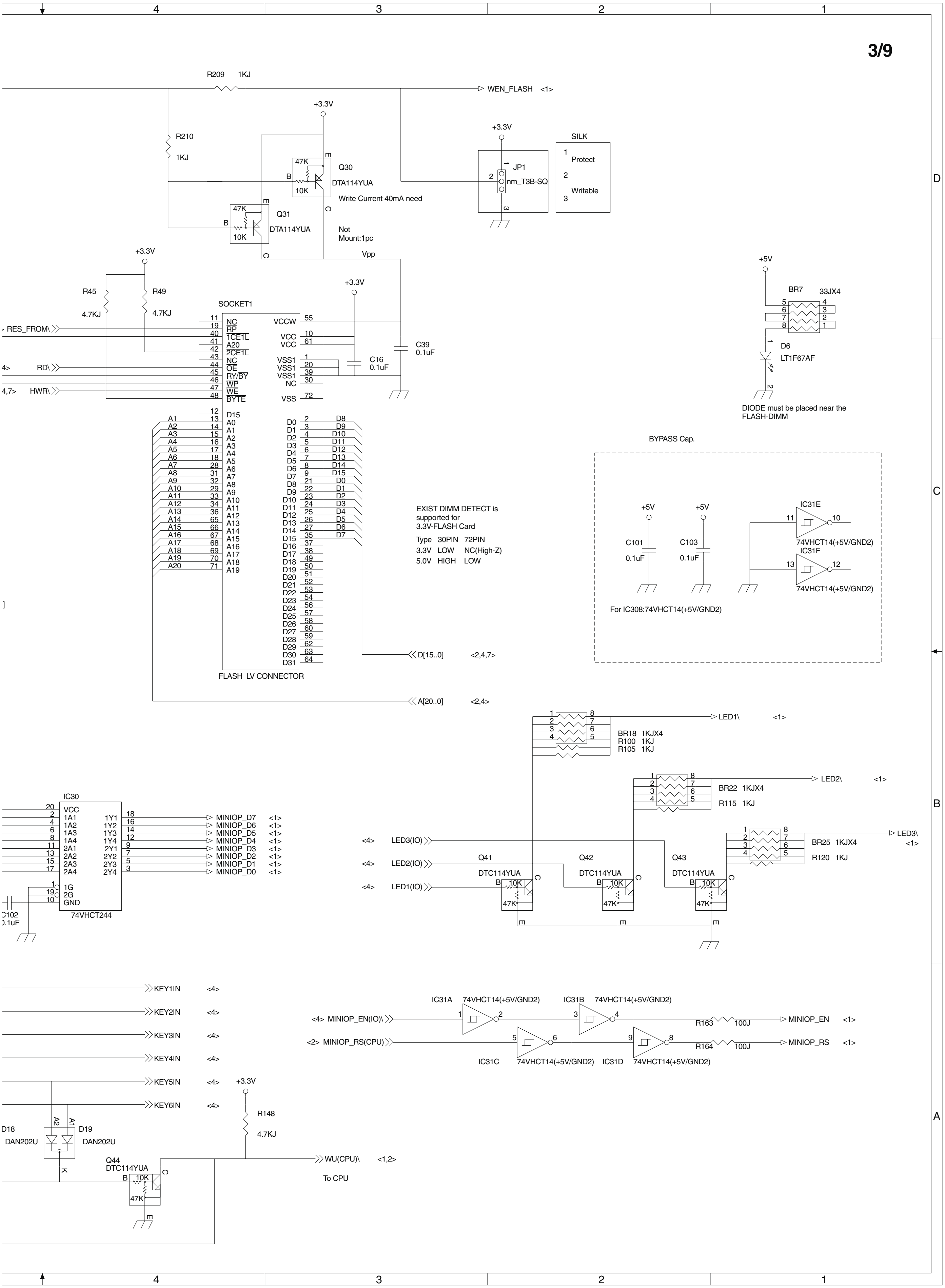


4
3
2
1
2/9
OPENDRAIN
+5V
+5V
+3.3V
C113
0.1uF
R177
27KF
R176
4.7KJ
IC35
NC
IN
NC
GND
NC
VCC
OUT
Cd
M51957BFP
R172
100J
C106
1000pF
R168
11KF
C109
0.1uF
C108
1000pF
D
+3.3V
C112
0.1uF
+3.3V
+3.3V
RES_FROM\ <3>
R175
10KJ
R174
4.7KJ
IC34
M51957BFP
IC18A
R69
100J
Delay Curcuit
NMI\
RES\
R170
10KJ
C105
1uF(1608)
74VHC14(+3.3V/GND2)
C30
0.1uF
TES_K <1,6>
TES_C <1,6>
TES_M <1,6>
TES_Y <1,6>
PSFM_PWMOUT <8>
DSR_PCU(OUT) <8>
PRTC_PWMOUT <8>
DTR_PCU(IN) <8>
MINIOP_RS(CPU) <3>
RES_PCU(IN) <8>
C
11K-10K : 2.63V Detect
10K-10K : 2.50V Detect
Q48
DTC114YUA
RESET_REQUEST\
B
10K
47K
C
E
IC18B
74VHC14(+3.3V/GND2)
SCK(CPU)\ <8>
RY/BY_FROM <3>
RSV_DAT(CPU)\ <8>
TRNS_DAT(CPU)\ <8>
TXD_PCU(IN) <8>
RXD_PCU(OUT) <8>
5/SCK1
4/SCK0
3/RXD1
2/RXD0
1/TXD1
0/TXD0
+3.3V
D7/D15
D6/D14
D5/D13
D4/D12
VSS
D3/D11
D2/D10
PD1/D9
PD0/D8
PE7/D7
PE6/D6
PE5/D5
PE4/D4
VSS
PE3/D3
PE2/D2
PE1/D1
PE0/D0
VCC
CPU-D15
CPU-D14
CPU-D13
CPU-D12
CPU-D11
CPU-D10
CPU-D9
CPU-D8
CPU-D7
CPU-D6
CPU-D5
CPU-D4
CPU-D3
CPU-D2
CPU-D1
CPU-D0
BR23
BR20
BR47
BR16
33JX4
D15
D14
D13
D12
D11
D10
D9
D8
D7
D6
D5
D4
D3
D2
D1
D0
D[15..0] <3,4,7>
+3.3V
BR24
BR21
BR17
BR46
10KJX4
+5V
D14
RA13
A
K
SK
C60
3300uF/6.5V
D12
1SS133
IC21
RC1117S33T(SOT-223)
INPUT
OUTPUT
ADJ/GND
+3.3V
R96
nm_110F
C44
1000uF/10V
B
Adjust Register must be connected near Pin-2
C41
nm_100uF/6.3V
R97
0J
BYPASS Cap.
+3.3V_CPU_CORE
ZJSR5101-223
NF4
+3.3V
C68
10uF/35V
C48
10uF/35V
C62 0.1uF
C65 0.1uF
C57 0.1uF
C49 0.1uF
C43 0.1uF
C46 0.1uF
GND2
A
R208 4.7KJ
+3.3V
MSWOFF\
Q59
DTC114YUA
+3.3V
R83
4.7KJ
R76
33J
MSWMON <1>
WU(CPU)\ <1,3>
C40
10uF/35V
R87 4.7KJ
+3.3V
CS_IO2\ <7>
RESET_I/OASIC\ <4>
R86 47KJ
MAINPR <8>

PCU PWB (SRAM, EEPROM, Flash Memory, Mini-OP Section)

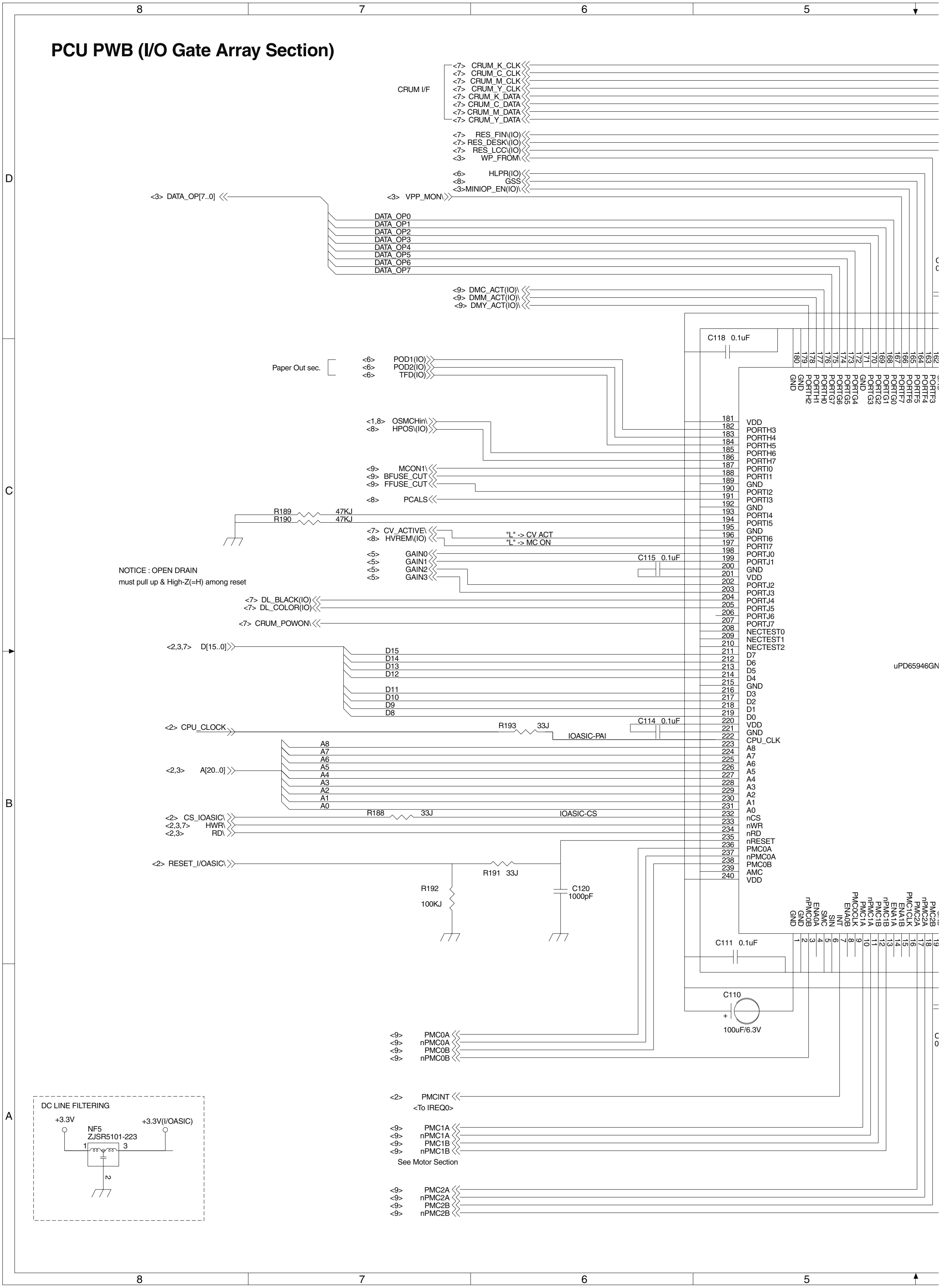


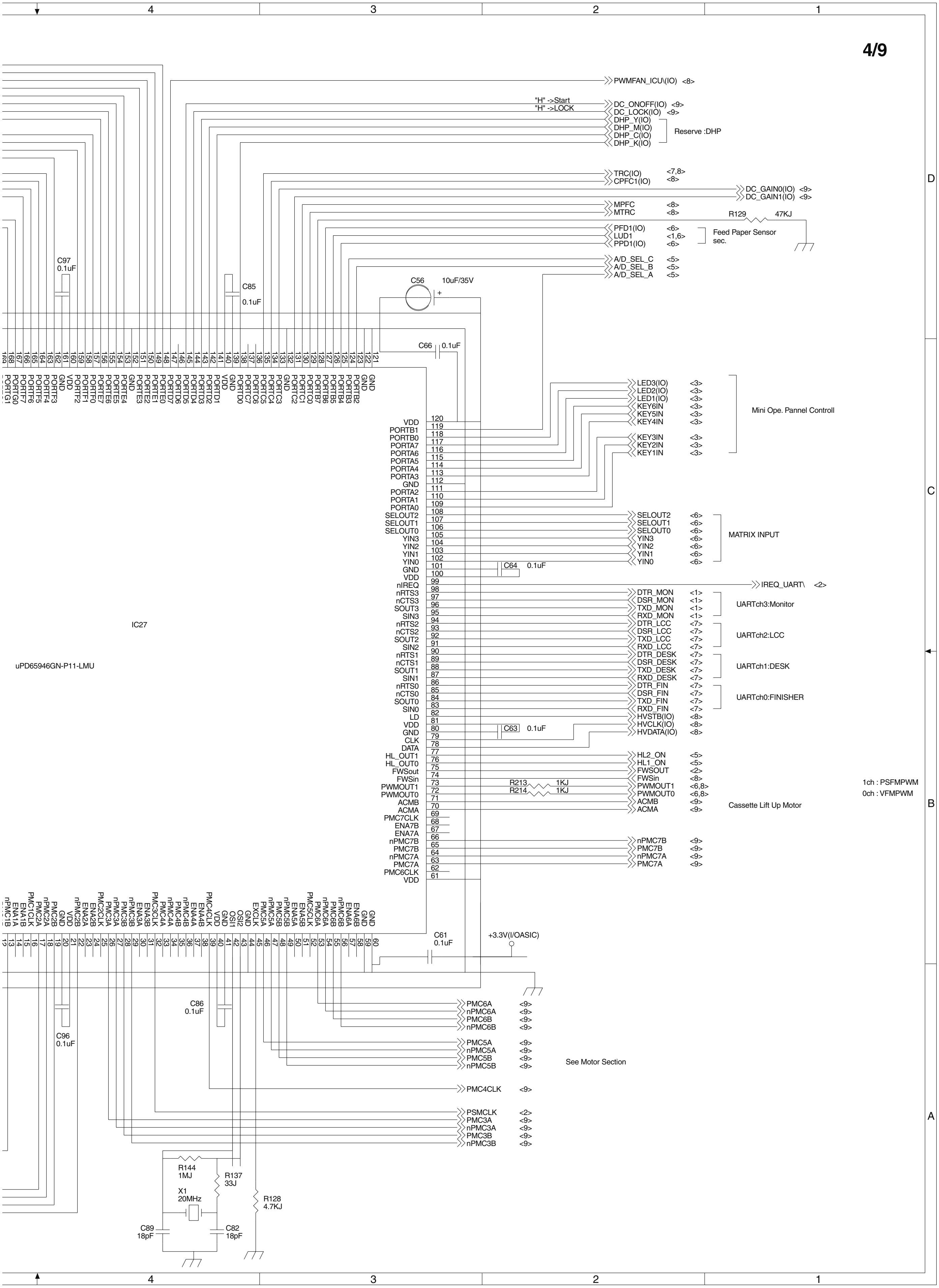
8
7
6
5
D
C
B
A
LWR\ <2>
HWR\ <2,4,7>
RD\ <2,4>
<4> VPP_MON\
R143 33J
CS_SRAM\ <2>
A[20..0] <2,4>
D[15..0] <2,4,7>
IC25
IS61LV256(SOJ)
+3.3V
HWR\
RD\
CSELSRAM
C81 0.1uF
A15 A13 A8 A7 A6 A5 A4 A3 A2 A1 D8 D9 D10
A14 A12 A7 A6 A5 A4 A3 A2 A1 A0 I/O0 I/O1 I/O2 GND
VCC WE A13 A8 A9 A11 OE A10 CE I/O7 I/O6 I/O5 I/O4 I/O3
A14 A9 A10 A12 A11 D15 D14 D13 D12 D11
IC24
IS61LV256(SOJ)
LWR\
C59 0.1uF
A15 A13 A8 A7 A6 A5 A4 A3 A2 A1 D0 D1 D2
D7 D6 D5 D4 D3
IC22
HN58V65AP
RDY/Busy
Vcc WE NC A8 A9 A11 OE A10 CE I/O7 I/O6 I/O5 I/O4 I/O3 Vss
A14 A12 A7 A6 A5 A4 A3 A2 A1 A0 D8 D9 D10
A13 A8 A9 A11 A10 D15 D14 D13 D12 D11
C70 0.1uF
R95 33J
CS_EEPROM\ <2>
R50 33J
<2> CS_FROM1\
<2> RES_FROM\
R44 4.7KJ
OPEN DRAIN
<2,4> RD\
<2> RY/BY_FROM
<2,4,7> HWR\
R48 nm_4.7KJ
<4> WP_FROM\
R46 0J
R47 10KJ
WORD MODE -> BUS= [LOWER BYTE : UPPER BYTE]
+5V
<4> DATA_OP[7..0]
DATA_OP7 DATA_OP6 DATA_OP5 DATA_OP4 DATA_OP3 DATA_OP2 DATA_OP1 DATA_OP0
C102 0.1uF
BR33 4.7KJX4
R158 4.7KJ
R162 4.7KJ
BR34 1KJX4
From Mini-OP
<1> KEY1
<1> KEY2
<1> KEY3
<1> KEY4
<1> KEY5
<1> KEY6
R154 1KJ
R161 1KJ
GND-LOOP SW
C94 C93 C92 C100 C99 C98 1000pF
IC29A IC29B IC29C IC29D IC29E IC29F
74VHCT14(+5V/GND2)
D17 DAN202U
D18 DAN202U
A2 A1 K
From ICU <1,2> WU_PCU\



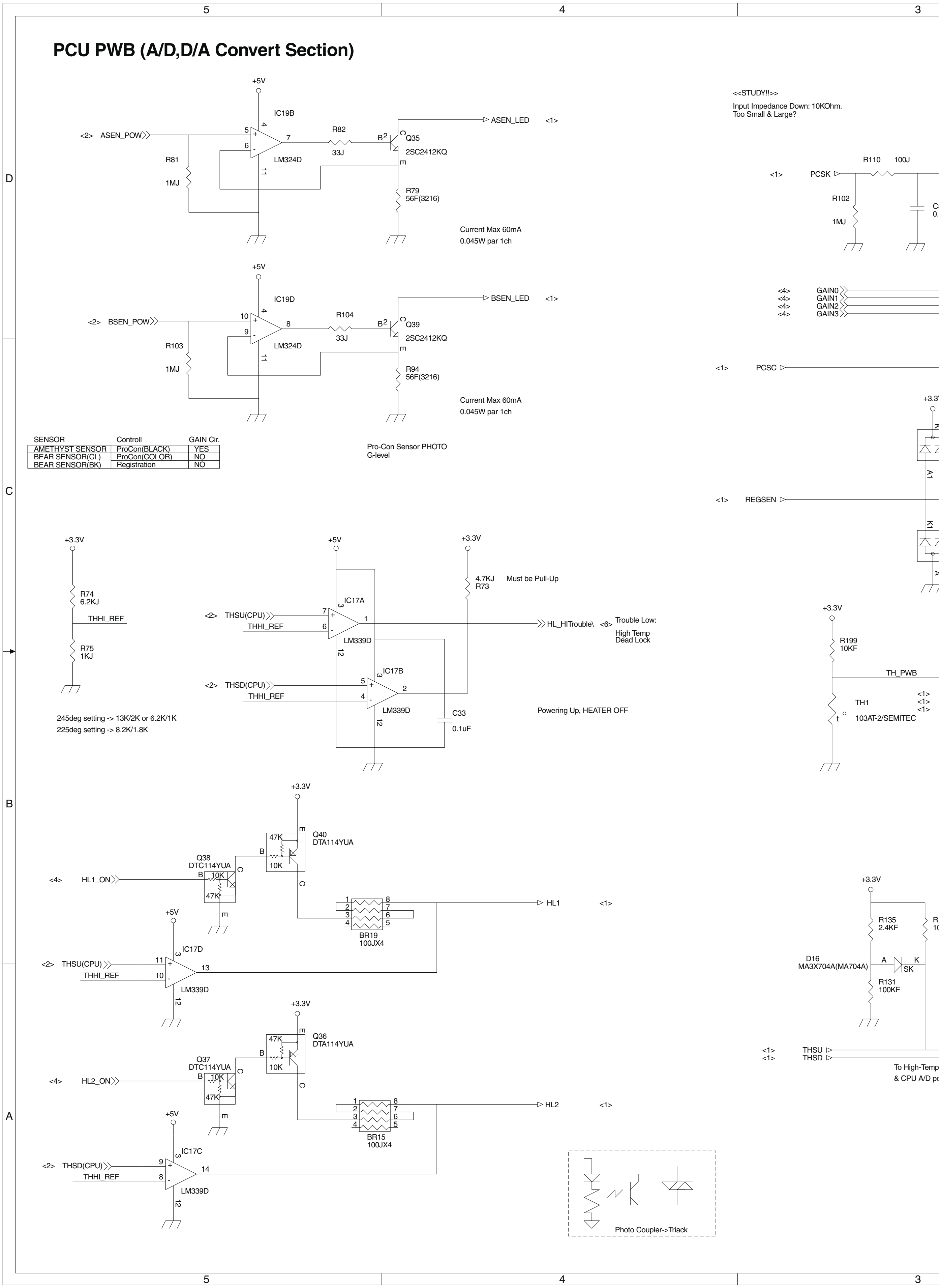
4
3
2
1
3/9
R209 1KJ
WEN_FLASH <1>
+3.3V
R210
1KJ
47K
B
10K
E
C
Q30
DTA114YUA
Write Current 40mA need
47K
B
10K
Q31
DTA114YUA
Not
Mount:1pc
Vpp
+3.3V
1
2
JP1
nm_T3B-SQ
3
SILK
1 Protect
2 Writable
3
D
+3.3V
R45
4.7KJ
R49
4.7KJ
SOCKET1
RES_FROM\
4> RD\
4,7> HWR\
NC
RP
1CE1L
A20
2CE1L
NC
OE
RY/BY
WP
WE
BYTE
D15
A0
A1
A2
A3
A4
A5
A6
A7
A8
A9
A10
A11
A12
A13
A14
A15
A16
A17
A18
A19
VCCW
VCC
VCC
VSS1
VSS1
VSS1
NC
VSS
D0
D1
D2
D3
D4
D5
D6
D7
D8
D9
D10
D11
D12
D13
D14
D15
D16
D17
D18
D19
D20
D21
D22
D23
D24
D25
D26
D27
D28
D29
D30
D31
FLASH LV CONNECTOR
+3.3V
C16
0.1uF
C39
0.1uF
EXIST DIMM DETECT is
supported for
3.3V-FLASH Card
Type 30PIN 72PIN
3.3V LOW NC(High-Z)
5.0V HIGH LOW
D[15..0] <2,4,7>
A[20..0] <2,4>
+5V
BR7 33JX4
D6
LT1F67AF
DIODE must be placed near the
FLASH-DIMM
BYPASS Cap.
+5V
+5V
C101
0.1uF
C103
0.1uF
IC31E
74VHCT14(+5V/GND2)
IC31F
74VHCT14(+5V/GND2)
For IC308:74VHCT14(+5V/GND2)
C
LED1\ <1>
BR18 1KJX4
R100 1KJ
R105 1KJ
LED2\ <1>
BR22 1KJX4
R115 1KJ
LED3\ <1>
BR25 1KJX4
R120 1KJ
<4> LED3(IO)
<4> LED2(IO)
<4> LED1(IO)
Q41
DTC114YUA
Q42
DTC114YUA
Q43
DTC114YUA
10K
47K
B
IC30
VCC
1A1
1A2
1A3
1A4
2A1
2A2
2A3
2A4
1G
2G
GND
1Y1
1Y2
1Y3
1Y4
2Y1
2Y2
2Y3
2Y4
74VHCT244
C102
0.1uF
MINIOP_D7 <1>
MINIOP_D6 <1>
MINIOP_D5 <1>
MINIOP_D4 <1>
MINIOP_D3 <1>
MINIOP_D2 <1>
MINIOP_D1 <1>
MINIOP_D0 <1>
B
KEY1IN <4>
KEY2IN <4>
KEY3IN <4>
KEY4IN <4>
KEY5IN <4>
KEY6IN <4>
IC31A 74VHCT14(+5V/GND2)
IC31B 74VHCT14(+5V/GND2)
<4> MINIOP_EN(IO)\
<2> MINIOP_RS(CPU)
R163 100J
R164 100J
MINIOP_EN <1>
MINIOP_RS <1>
IC31C 74VHCT14(+5V/GND2)
IC31D 74VHCT14(+5V/GND2)
A
+3.3V
R148
4.7KJ
D18
DAN202U
D19
DAN202U
A2
A1
K
Q44
DTC114YUA
WU(CPU)\ <1,2>
To CPU

PCU PWB (I/O Gate Array Section)

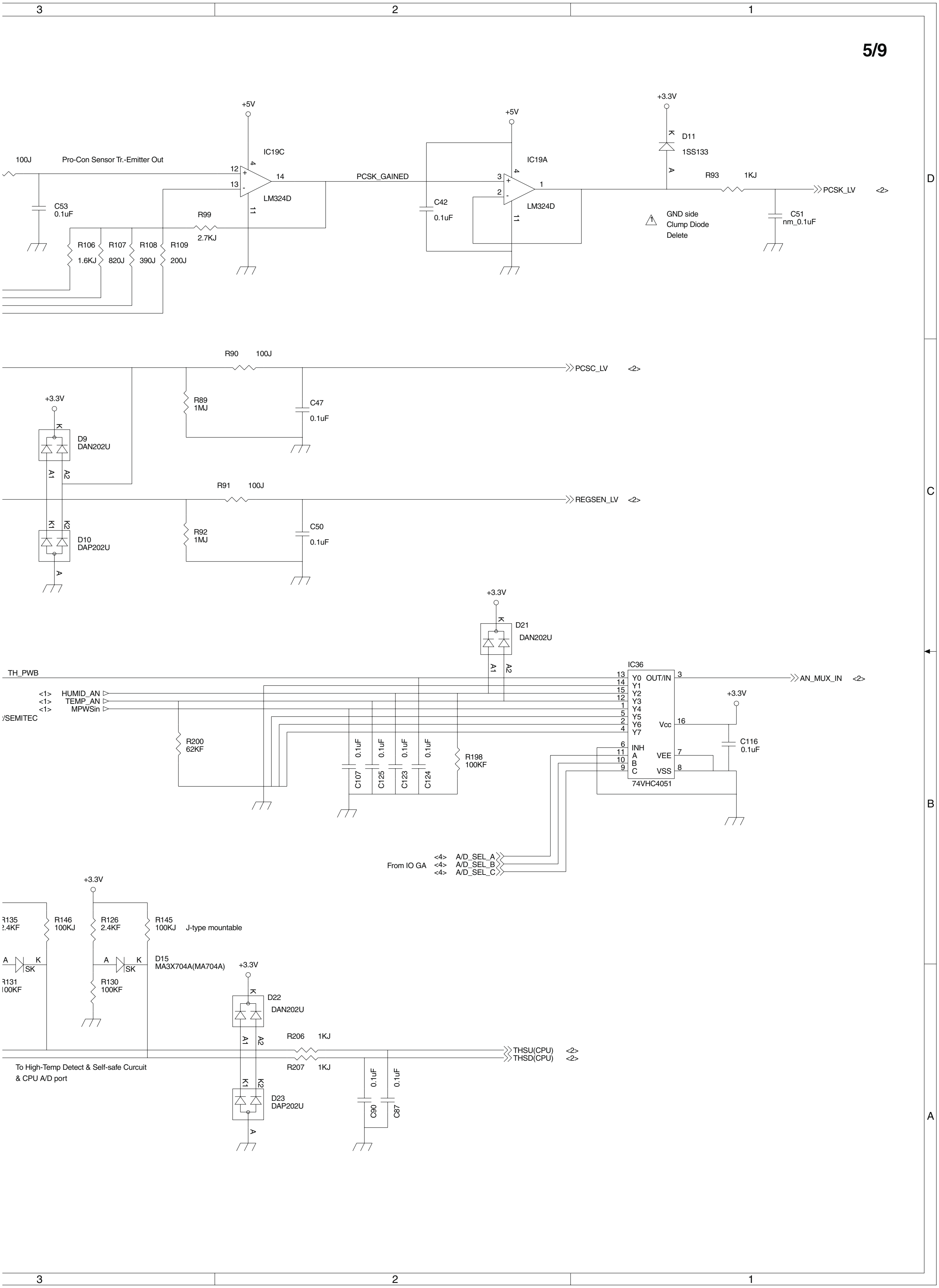

8
7
6
5
D
C
B
A
CRUM I/F
<7> CRUM_K_CLK
<7> CRUM_C_CLK
<7> CRUM_M_CLK
<7> CRUM_Y_CLK
<7> CRUM_K_DATA
<7> CRUM_C_DATA
<7> CRUM_M_DATA
<7> CRUM_Y_DATA
<7> RES_FIN\(IO)
<7> RES_DESK\(IO)
<7> RES_LCC\(IO)
<3> WP_FROM\
<6> HLPR(IO)
<8> GSS
<3>MINIOP_EN(IO)\
<3> DATA_OP[7..0]
<3> VPP_MON\
DATA_OP0
DATA_OP1
DATA_OP2
DATA_OP3
DATA_OP4
DATA_OP5
DATA_OP6
DATA_OP7
<9> DMC_ACT(IO)\
<9> DMM_ACT(IO)\
<9> DMY_ACT(IO)\
C118 0.1uF
180 GND
179 GND
178 PORTH2
177 PORTH1
176 PORTH0
175 PORTG7
174 PORTG6
173 PORTG5
172 PORTG4
171 GND
170 PORTG3
169 PORTG2
168 PORTG1
167 PORTG0
166 PORTF7
165 PORTF6
164 PORTF5
163 PORTF4
162 PORTF3
Paper Out sec.
<6> POD1(IO)
<6> POD2(IO)
<6> TFD(IO)
<1,8> OSMCHin\
<8> HPOS\(IO)
<9> MCON1\
<9> BFUSE_CUT
<9> FFUSE_CUT
<8> PCALS
R189 47KJ
R190 47KJ
<7> CV_ACTIVE\
<8> HVREM\(IO)
"L" -> CV ACT
"L" -> MC ON
<5> GAIN0
<5> GAIN1
<5> GAIN2
<5> GAIN3
C115 0.1uF
NOTICE : OPEN DRAIN
must pull up & High-Z(=H) among reset
<7> DL_BLACK(IO)
<7> DL_COLOR(IO)
<7> CRUM_POWON\
<2,3,7> D[15..0]
D15
D14
D13
D12
D11
D10
D9
D8
<2> CPU_CLOCK
R193 33J
IOASIC-PAI
C114 0.1uF
<2,3> A[20..0]
A8
A7
A6
A5
A4
A3
A2
A1
A0
<2> CS_IOASIC\
<2,3,7> HWR\
<2,3> RD\
R188 33J
IOASIC-CS
<2> RESET_I/OASIC\
R191 33J
R192
100KJ
C120
1000pF
181 VDD
182 PORTH3
183 PORTH4
184 PORTH5
185 PORTH6
186 PORTH7
187 PORTI0
188 PORTI1
189 GND
190 PORTI2
191 PORTI3
192 GND
193 PORTI4
194 PORTI5
195 GND
196 PORTI6
197 PORTI7
198 PORTJ0
199 PORTJ1
200 GND
201 VDD
202 PORTJ2
203 PORTJ3
204 PORTJ4
205 PORTJ5
206 PORTJ6
207 PORTJ7
208 NECTEST0
209 NECTEST1
210 NECTEST2
211 D7
212 D6
213 D5
214 D4
215 GND
216 D3
217 D2
218 D1
219 D0
220 VDD
221 GND
222 CPU_CLK
223 A8
224 A7
225 A6
226 A5
227 A4
228 A3
229 A2
230 A1
231 A0
232 nCS
233 nWR
234 nRD
235 nRESET
236 PMC0A
237 nPMC0A
238 PMC0B
239 AMC
240 VDD
uPD65946GN
1 GND
2 GND
3 nPMC0B
4 ENA0A
5 SMC
6 SIN
7 INT
8 ENA0B
9 PMC0CLK
10 nPMC1A
11 PMC1A
12 nPMC1B
13 PMC1B
14 ENA1A
15 ENA1B
16 PMC1CLK
17 PMC2A
18 nPMC2A
19 PMC2B
C111 0.1uF
C110
100uF/6.3V
<9> PMC0A
<9> nPMC0A
<9> PMC0B
<9> nPMC0B
<2> PMCINT
<To IREQ0>
<9> PMC1A
<9> nPMC1A
<9> PMC1B
<9> nPMC1B
See Motor Section
<9> PMC2A
<9> nPMC2A
<9> PMC2B
<9> nPMC2B
DC LINE FILTERING
+3.3V
+3.3V(I/OASIC)
NF5
ZJSR5101-223
1
3
2


4/9
4
3
2
1
D
C
B
A
PWMFAN_ICU\(IO) <8>
"H" ->Start
"H" ->LOCK
DC_ONOFF(IO) <9>
DC_LOCK(IO) <9>
DHP_Y(IO)
DHP_M(IO)
DHP_C(IO)
DHP_K(IO)
Reserve :DHP
TRC(IO) <7,8>
CPFC1(IO) <8>
DC_GAIN0(IO) <9>
DC_GAIN1(IO) <9>
MPFC <8>
MTRC <8>
R129 47KJ
PFD1(IO) <6>
LUD1 <1,6>
PPD1(IO) <6>
Feed Paper Sensor sec.
A/D_SEL_C <5>
A/D_SEL_B <5>
A/D_SEL_A <5>
C97 0.1uF
C85 0.1uF
C56 10uF/35V
C66 0.1uF
PORTG1 PORTG0 PORTF7 PORTF6 PORTF5 PORTF4 PORTF3 GND VDD PORTF2 PORTF1 PORTF0 PORTE7 PORTE6 PORTE5 PORTE4 GND PORTE3 PORTE2 PORTE1 PORTE0 PORTD7 PORTD6 PORTD5 PORTD4 PORTD3 PORTD2 PORTD1 VDD GND PORTD0 PORTC7 PORTC6 PORTC5 PORTC4 PORTC3 GND PORTC2 PORTC1 PORTC0 PORTB7 PORTB6 PORTB5 PORTB4 PORTB3 PORTB2 GND GND
LED3(IO) <3>
LED2(IO) <3>
LED1(IO) <3>
KEY6IN <3>
KEY5IN <3>
KEY4IN <3>
KEY3IN <3>
KEY2IN <3>
KEY1IN <3>
Mini Ope. Pannel Controll
VDD 120
PORTB1 119
PORTB0 118
PORTA7 117
PORTA6 116
PORTA5 115
PORTA4 114
PORTA3 113
GND 112
PORTA2 111
PORTA1 110
PORTA0 109
SELOUT2 108
SELOUT1 107
SELOUT0 106
YIN3 105
YIN2 104
YIN1 103
YIN0 102
GND 101
VDD 100
nIREQ 99
nRTS3 98
nCTS3 97
SOUT3 96
SIN3 95
nRTS2 94
nCTS2 93
SOUT2 92
SIN2 91
nRTS1 90
nCTS1 89
SOUT1 88
SIN1 87
nRTS0 86
nCTS0 85
SOUT0 84
SIN0 83
LD 82
VDD 81
GND 80
CLK 79
DATA 78
HL_OUT1 77
HL_OUT0 76
FWSout 75
FWSin 74
PWMOUT1 73
PWMOUT0 72
ACMB 71
ACMA 70
PMC7CLK 69
ENA7B 68
ENA7A 67
nPMC7B 66
PMC7B 65
nPMC7A 64
PMC7A 63
PMC6CLK 62
VDD 61
SELOUT2 <6>
SELOUT1 <6>
SELOUT0 <6>
YIN3 <6>
YIN2 <6>
YIN1 <6>
YIN0 <6>
MATRIX INPUT
C64 0.1uF
IREQ_UART\ <2>
DTR_MON <1>
DSR_MON <1>
TXD_MON <1>
RXD_MON <1>
UARTch3:Monitor
DTR_LCC <7>
DSR_LCC <7>
TXD_LCC <7>
RXD_LCC <7>
UARTch2:LCC
DTR_DESK <7>
DSR_DESK <7>
TXD_DESK <7>
RXD_DESK <7>
UARTch1:DESK
DTR_FIN <7>
DSR_FIN <7>
TXD_FIN <7>
RXD_FIN <7>
UARTch0:FINISHER
HVSTB(IO) <8>
HVCLK(IO) <8>
HVDATA(IO) <8>
C63 0.1uF
HL2_ON <5>
HL1_ON <5>
FWSOUT <2>
FWSin <8>
R213 1KJ
R214 1KJ
PWMOUT1 <6,8>
PWMOUT0 <6,8>
ACMB <9>
ACMA <9>
1ch : PSFMPWM
0ch : VFMPWM
Cassette Lift Up Motor
nPMC7B <9>
PMC7B <9>
nPMC7A <9>
PMC7A <9>
IC27
uPD65946GN-P11-LMU
nPMC1B ENA1A ENA1B PMC1CLK PMC2A nPMC2A PMC2B GND VDD nPMC2B ENA2A ENA2B PMC2CLK PMC3A nPMC3A PMC3B nPMC3B ENA3A ENA3B PMC3CLK PMC4A nPMC4A PMC4B nPMC4B ENA4A ENA4B PMC4CLK VDD GND OSI1 OSI2 GND EXCLK PMC5A nPMC5A PMC5B nPMC5B ENA5A ENA5B PMC5CLK PMC6A nPMC6A PMC6B nPMC6B ENA6A ENA6B GND GND
C61 0.1uF
+3.3V(I/OASIC)
C86 0.1uF
C96 0.1uF
PMC6A <9>
nPMC6A <9>
PMC6B <9>
nPMC6B <9>
PMC5A <9>
nPMC5A <9>
PMC5B <9>
nPMC5B <9>
See Motor Section
PMC4CLK <9>
PSMCLK <2>
PMC3A <9>
nPMC3A <9>
PMC3B <9>
nPMC3B <9>
R144 1MJ
R137 33J
X1 20MHz
R128 4.7KJ
C89 18pF
C82 18pF

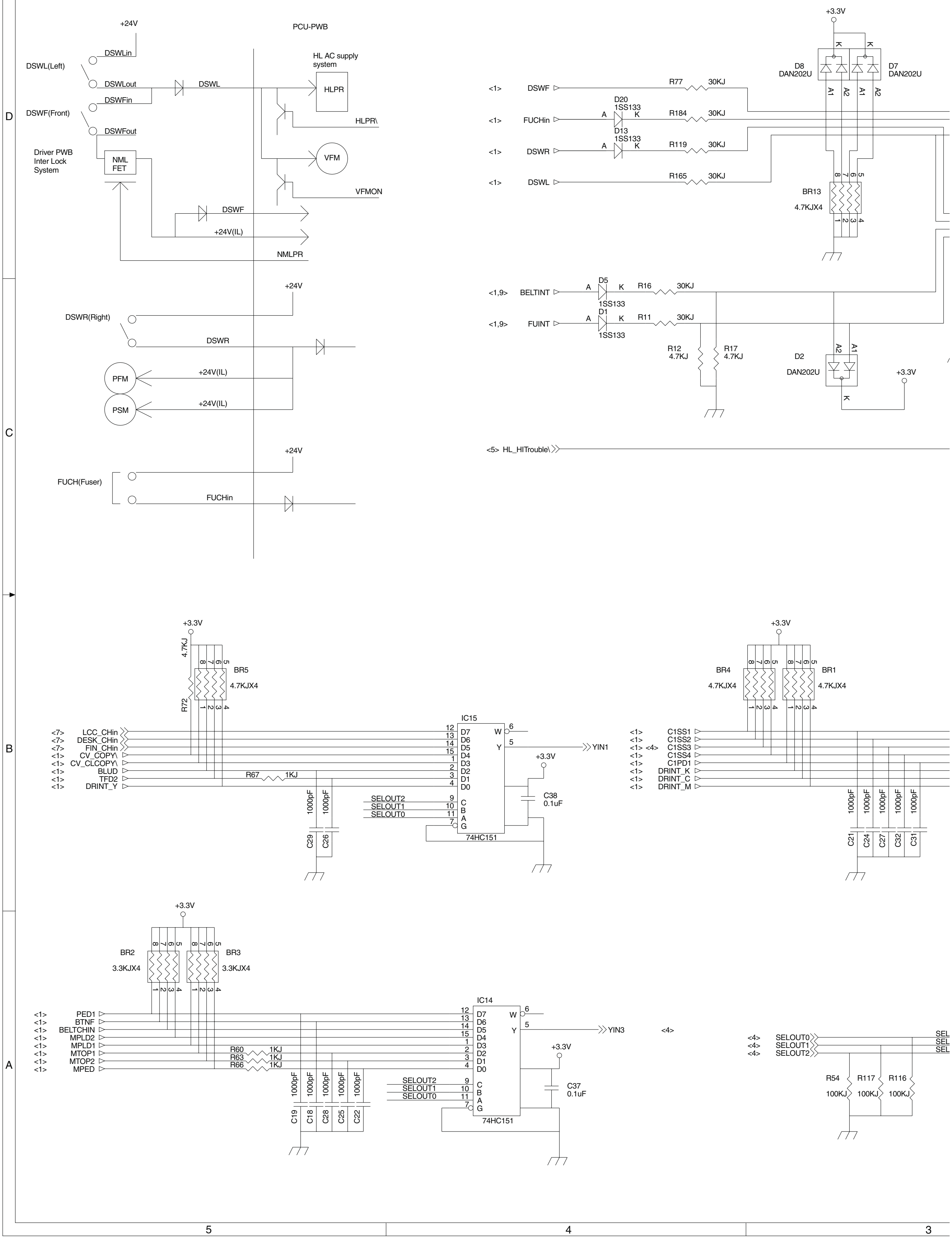
PCU PWB (A/D,D/A Convert Section)

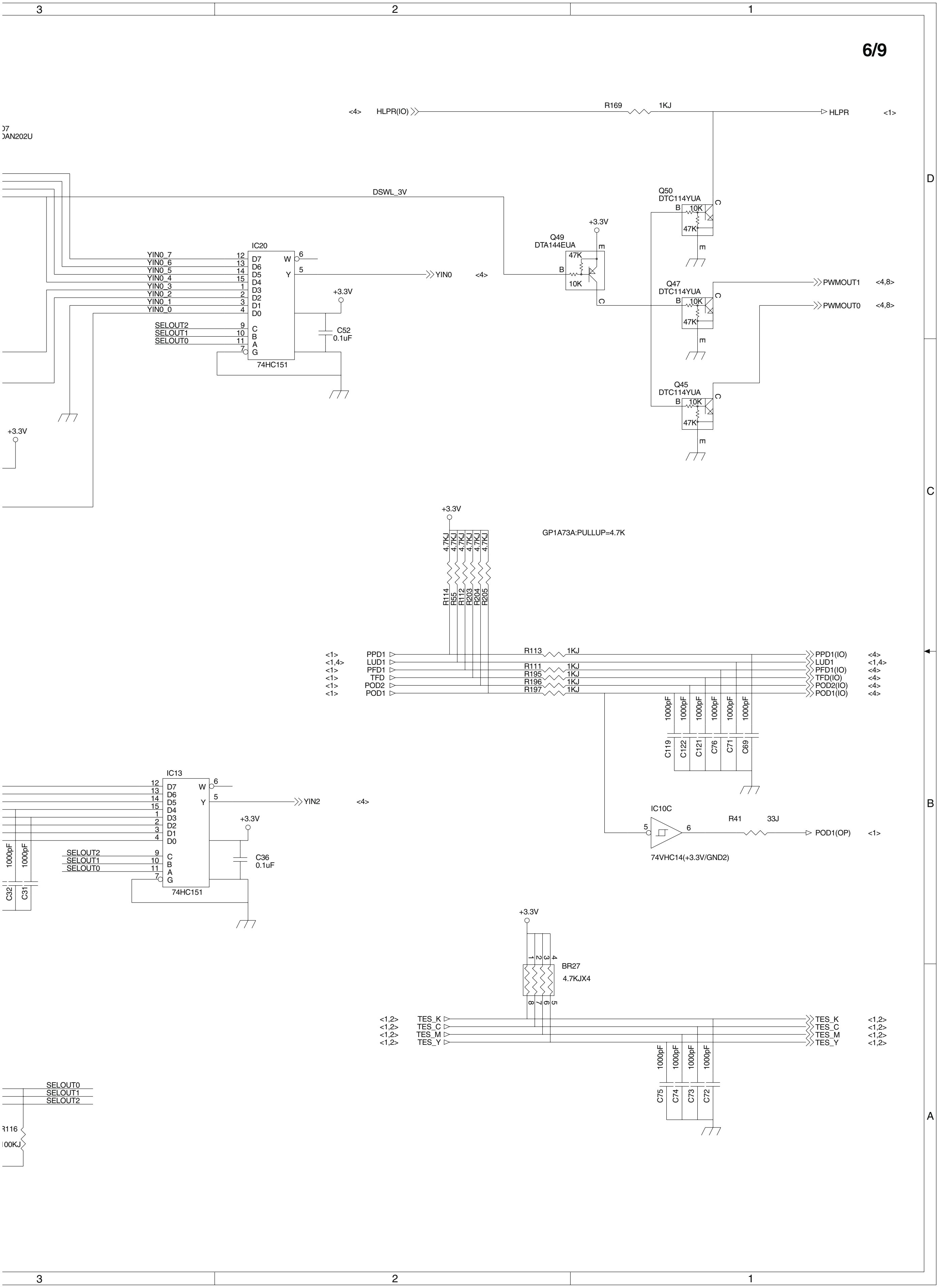

5
4
3
D
C
B
A
+5V
IC19B
<2> ASEN_POW
R81
1MJ
LM324D
R82
33J
Q35
2SC2412KQ
R79
56F(3216)
ASEN_LED <1>
Current Max 60mA
0.045W par 1ch
IC19D
<2> BSEN_POW
R103
1MJ
R104
33J
Q39
2SC2412KQ
R94
56F(3216)
BSEN_LED <1>
Current Max 60mA
0.045W par 1ch
Pro-Con Sensor PHOTO
G-level
<<STUDY!!>>
Input Impedance Down: 10KOhm.
Too Small & Large?
<1> PCSK
R110 100J
R102
1MJ
<4> GAIN0
<4> GAIN1
<4> GAIN2
<4> GAIN3
<1> PCSC
<1> REGSEN
A1
K1
+3.3V
R74
6.2KJ
THHI_REF
R75
1KJ
245deg setting -> 13K/2K or 6.2K/1K
225deg setting -> 8.2K/1.8K
<2> THSU(CPU)
THHI_REF
IC17A
LM339D
4.7KJ Must be Pull-Up
R73
HL_HITrouble\ <6>
Trouble Low:
High Temp
Dead Lock
<2> THSD(CPU)
IC17B
LM339D
C33
0.1uF
Powering Up, HEATER OFF
R199
10KF
TH_PWB
TH1
103AT-2/SEMITEC
<1>
<1>
<1>
Q40
DTA114YUA
47K
10K
Q38
DTC114YUA
<4> HL1_ON
BR19
100JX4
HL1 <1>
IC17D
<2> THSU(CPU)
LM339D
Q36
DTA114YUA
Q37
DTC114YUA
<4> HL2_ON
BR15
100JX4
HL2 <1>
IC17C
<2> THSD(CPU)
LM339D
R135
2.4KF
D16
MA3X704A(MA704A)
R131
100KF
<1> THSU
<1> THSD
To High-Temp
& CPU A/D p
Photo Coupler->Triack

SENSOR	Controll	GAIN Cir.
AMETHYST SENSOR	ProCon(BLACK)	YES
BEAR SENSOR(CL)	ProCon(COLOR)	NO
BEAR SENSOR(BK)	Registration	NO

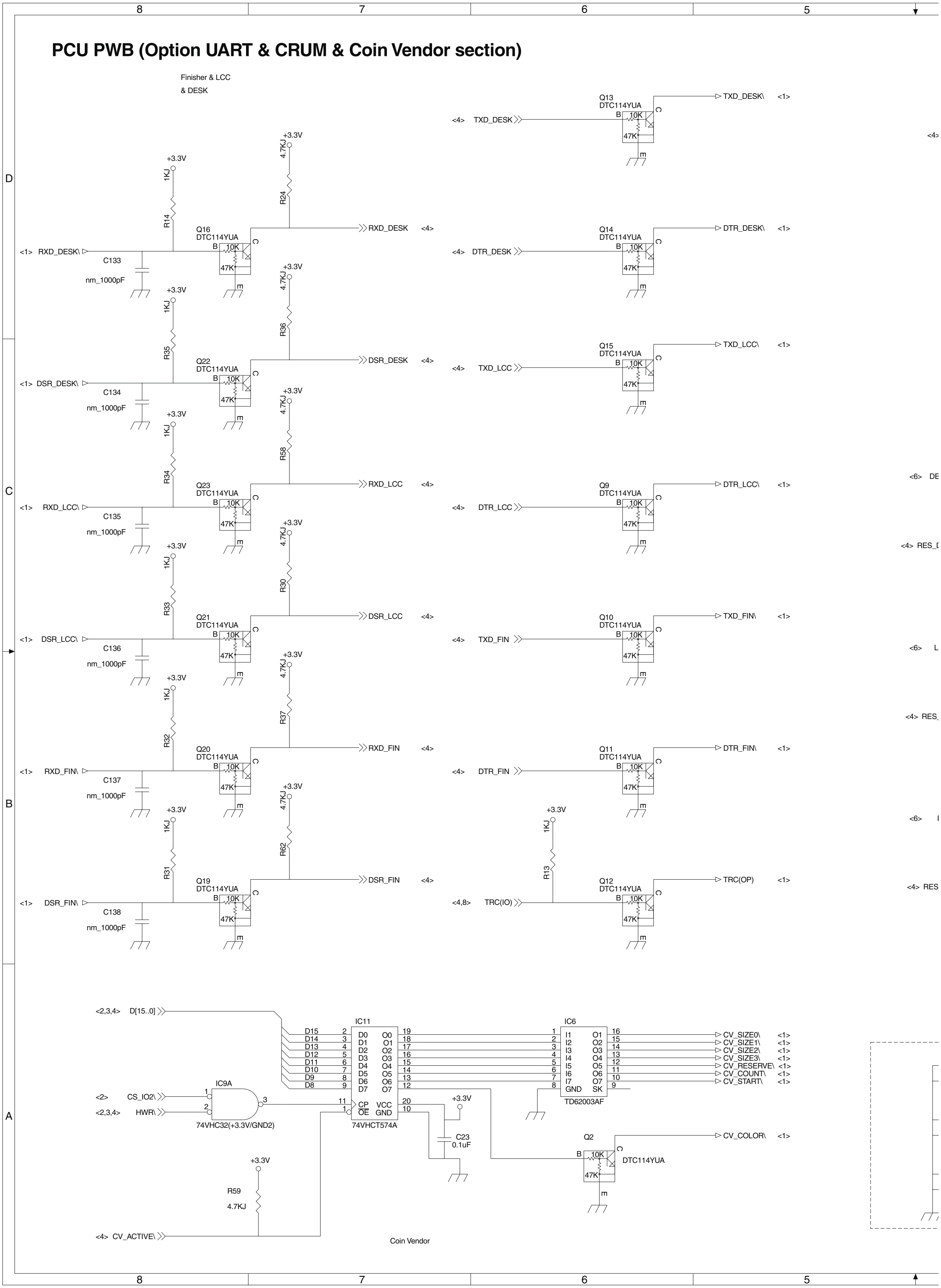

5/9
100J
Pro-Con Sensor Tr.-Emitter Out
C53
0.1uF
R106
1.6KJ
R107
820J
R108
390J
R109
200J
+5V
IC19C
12
13
4
14
11
LM324D
R99
2.7KJ
PCSK_GAINED
+5V
IC19A
3
2
4
1
11
LM324D
C42
0.1uF
+3.3V
D11
1SS133
K
A
R93
1KJ
GND side
Clump Diode
Delete
C51
nm_0.1uF
PCSK_LV
<2>
R90
100J
PCSC_LV
<2>
+3.3V
R89
1MJ
C47
0.1uF
D9
DAN202U
K
A1
A2
R91
100J
REGSEN_LV
<2>
R92
1MJ
C50
0.1uF
K1
K2
D10
DAP202U
A
+3.3V
D21
DAN202U
K
A1
A2
TH_PWB
<1> HUMID_AN
<1> TEMP_AN
<1> MPWSin
/SEMITEC
R200
62KF
C107
0.1uF
C125
0.1uF
C123
0.1uF
C124
0.1uF
R198
100KF
IC36
13 Y0 OUT/IN 3
14 Y1
15 Y2
12 Y3
1 Y4
5 Y5
2 Y6
4 Y7
Vcc 16
6 INH
11 A
10 B
9 C
VEE 7
VSS 8
74VHC4051
AN_MUX_IN
<2>
+3.3V
C116
0.1uF
From IO GA
<4> A/D_SEL_A
<4> A/D_SEL_B
<4> A/D_SEL_C
+3.3V
R135
2.4KF
R146
100KJ
R126
2.4KF
R145
100KJ
J-type mountable
A
K
SK
D15
MA3X704A(MA704A)
R131
100KF
R130
100KF
+3.3V
D22
DAN202U
K
A1
A2
R206
1KJ
R207
1KJ
THSU(CPU)
<2>
THSD(CPU)
<2>
To High-Temp Detect & Self-safe Curcuit
& CPU A/D port
K1
K2
D23
DAP202U
A
C90
0.1uF
C87
0.1uF
3
2
1
D
C
B
A

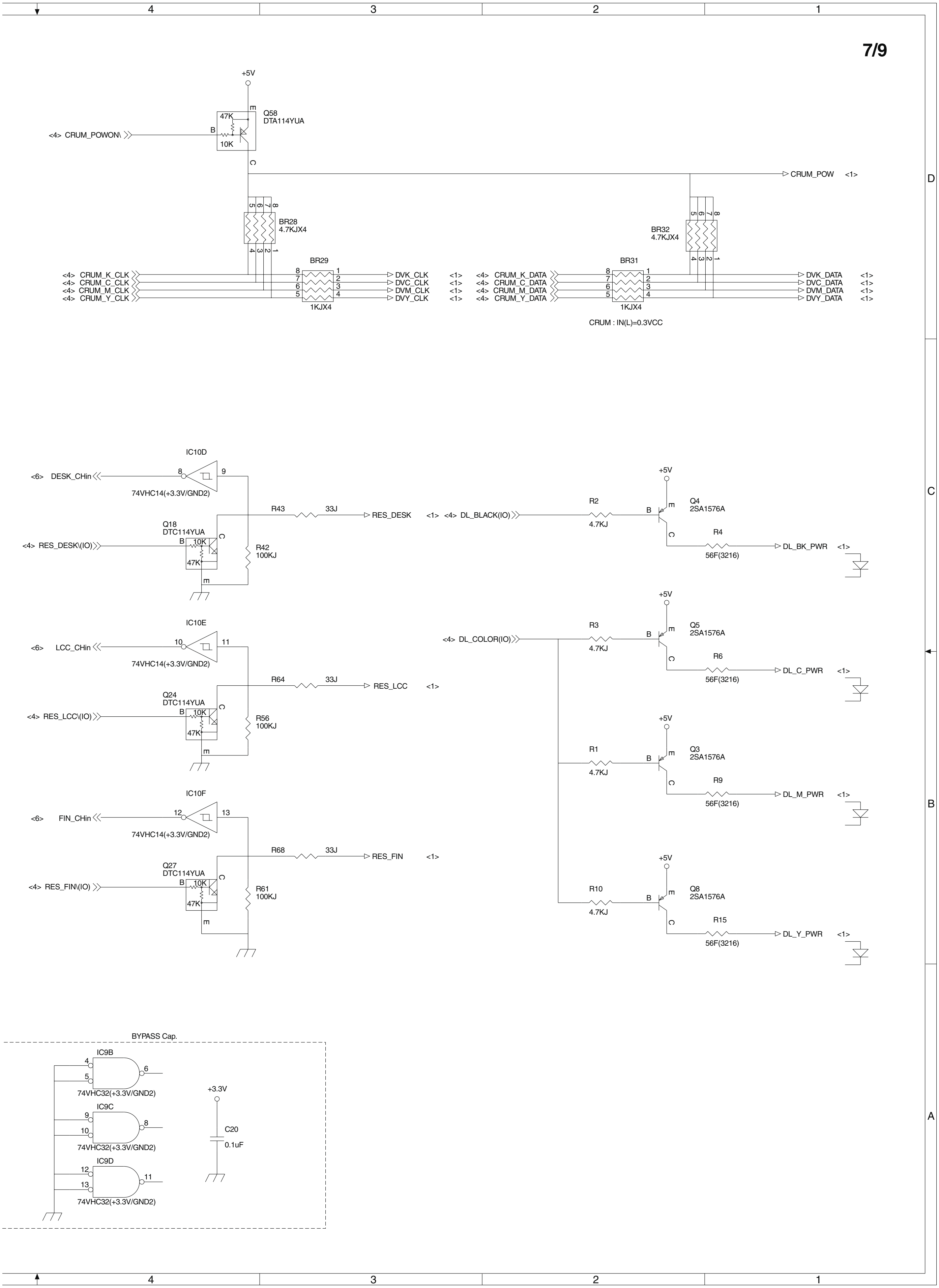
PCU PWB (Matrixed Sensing INPUT Section)


5
4
3
D
C
B
A
+24V
PCU-PWB
DSWLin
DSWL(Left)
DSWLout
DSWL
HL AC supply system
HLPR
HLPR\
DSWFin
DSWF(Front)
DSWFout
Driver PWB Inter Lock System
NML FET
VFM
VFMON
DSWF
+24V(IL)
NMLPR
+24V
DSWR(Right)
DSWR
PFM
+24V(IL)
PSM
+24V(IL)
+24V
FUCH(Fuser)
FUCHin
+3.3V
D8 DAN202U
D7 DAN202U
K
K
A1
A2
A1
A2
<1> DSWF
R77 30KJ
D20 1SS133
<1> FUCHin
A
K
R184 30KJ
D13 1SS133
<1> DSWR
A
K
R119 30KJ
<1> DSWL
R165 30KJ
BR13 4.7KJX4
<1,9> BELTINT
D5 1SS133
A
K
R16 30KJ
<1,9> FUINT
D1 1SS133
A
K
R11 30KJ
R12 4.7KJ
R17 4.7KJ
D2 DAN202U
A2
A1
K
+3.3V
<5> HL_HITrouble\
+3.3V
4.7KJ
R72
BR5 4.7KJX4
IC15
<7> LCC_CHin
<7> DESK_CHin
<7> FIN_CHin
<1> CV_COPY\
<1> CV_CLCOPY\
<1> BLUD
<1> TFD2
<1> DRINT_Y
R67 1KJ
D7
D6
D5
D4
D3
D2
D1
D0
W
Y
YIN1
+3.3V
C38 0.1uF
SELOUT2
SELOUT1
SELOUT0
C
B
A
G
74HC151
1000pF
1000pF
C29
C26
+3.3V
BR4 4.7KJX4
BR1 4.7KJX4
<1> C1SS1
<1> C1SS2
<1> <4> C1SS3
<1> C1SS4
<1> C1PD1
<1> DRINT_K
<1> DRINT_C
<1> DRINT_M
1000pF
C21
C24
C27
C32
C31
+3.3V
BR2 3.3KJX4
BR3 3.3KJX4
IC14
<1> PED1
<1> BTNF
<1> BELTCHIN
<1> MPLD2
<1> MPLD1
<1> MTOP1
<1> MTOP2
<1> MPED
R60 1KJ
R63 1KJ
R66 1KJ
YIN3
<4>
+3.3V
C37 0.1uF
SELOUT2
SELOUT1
SELOUT0
74HC151
1000pF
C19
C18
C28
C25
C22
<4> SELOUT0
<4> SELOUT1
<4> SELOUT2
SEL
SEL
SEL
R54 100KJ
R117 100KJ
R116 100KJ
5
4
3

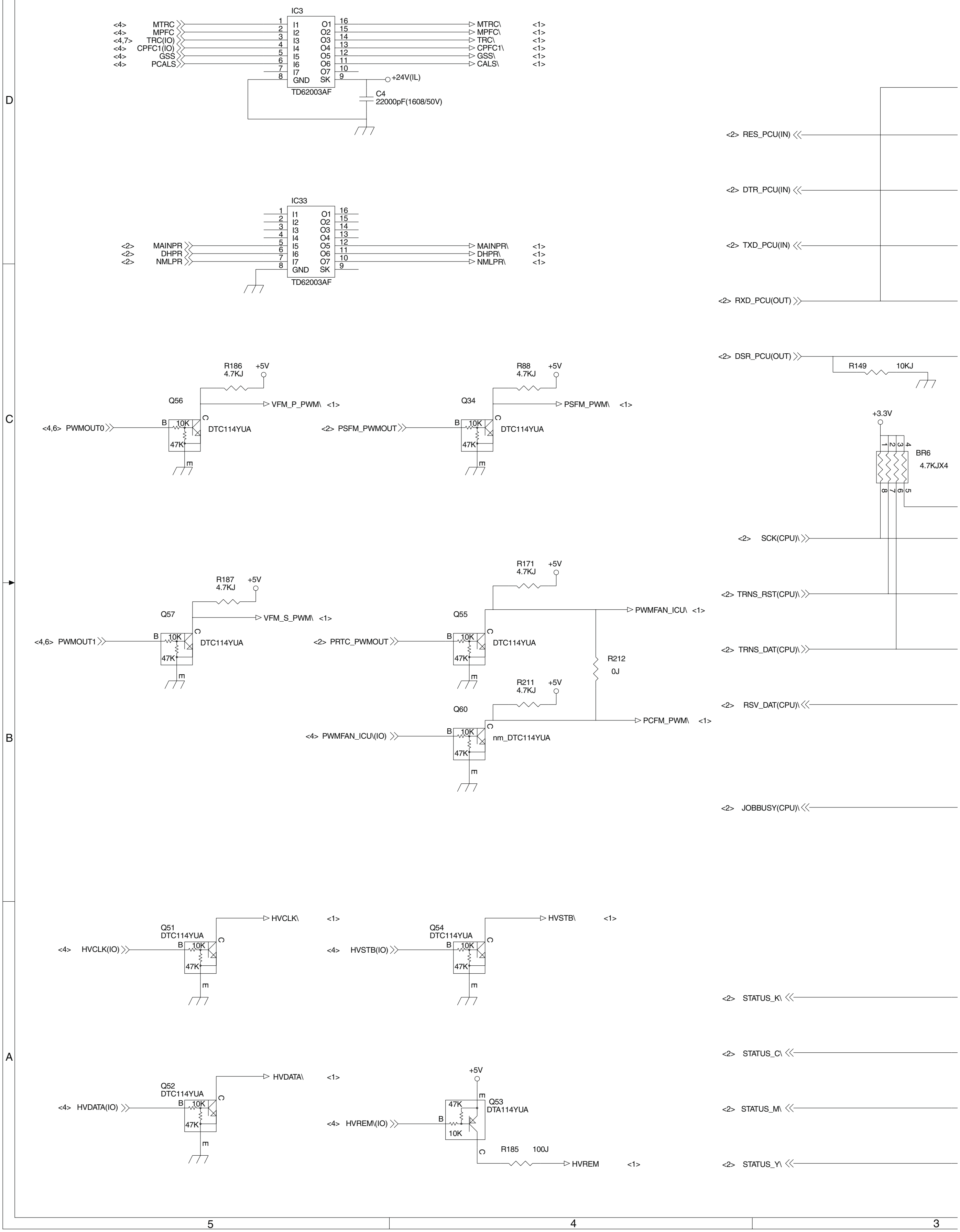

3
2
1
6/9
D
C
B
A
<4> HLPR(IO)
R169 1KJ
HLPR <1>
D7
DAN202U
DSWL_3V
Q50
DTC114YUA
10K
47K
+3.3V
Q49
DTA144EUA
47K
10K
IC20
YIN0_7 12 D7
YIN0_6 13 D6
YIN0_5 14 D5
YIN0_4 15 D4
YIN0_3 1 D3
YIN0_2 2 D2
YIN0_1 3 D1
YIN0_0 4 D0
SELOUT2 9 C
SELOUT1 10 B
SELOUT0 11 A
7 G
W 6
Y 5
YIN0 <4>
74HC151
C52
0.1uF
Q47
DTC114YUA
PWMOUT1 <4,8>
PWMOUT0 <4,8>
Q45
DTC114YUA
+3.3V
GP1A73A:PULLUP=4.7K
4.7KJ
R114
R55
R112
R203
R204
R205
<1> PPD1
<1,4> LUD1
<1> PFD1
<1> TFD
<1> POD2
<1> POD1
R113 1KJ
R111 1KJ
R195 1KJ
R196 1KJ
R197 1KJ
PPD1(IO) <4>
LUD1 <1,4>
PFD1(IO) <4>
TFD(IO) <4>
POD2(IO) <4>
POD1(IO) <4>
1000pF
C119
C122
C121
C76
C71
C69
IC13
12 D7
13 D6
14 D5
15 D4
1 D3
2 D2
3 D1
4 D0
SELOUT2 9 C
SELOUT1 10 B
SELOUT0 11 A
7 G
W 6
Y 5
YIN2 <4>
74HC151
C36
0.1uF
C32
C31
IC10C
5
6
R41 33J
POD1(OP) <1>
74VHC14(+3.3V/GND2)
BR27
4.7KJX4
1 2 3 4
8 7 6 5
<1,2> TES_K
<1,2> TES_C
<1,2> TES_M
<1,2> TES_Y
TES_K <1,2>
TES_C <1,2>
TES_M <1,2>
TES_Y <1,2>
C75
C74
C73
C72
SELOUT0
SELOUT1
SELOUT2
R116
100KJ

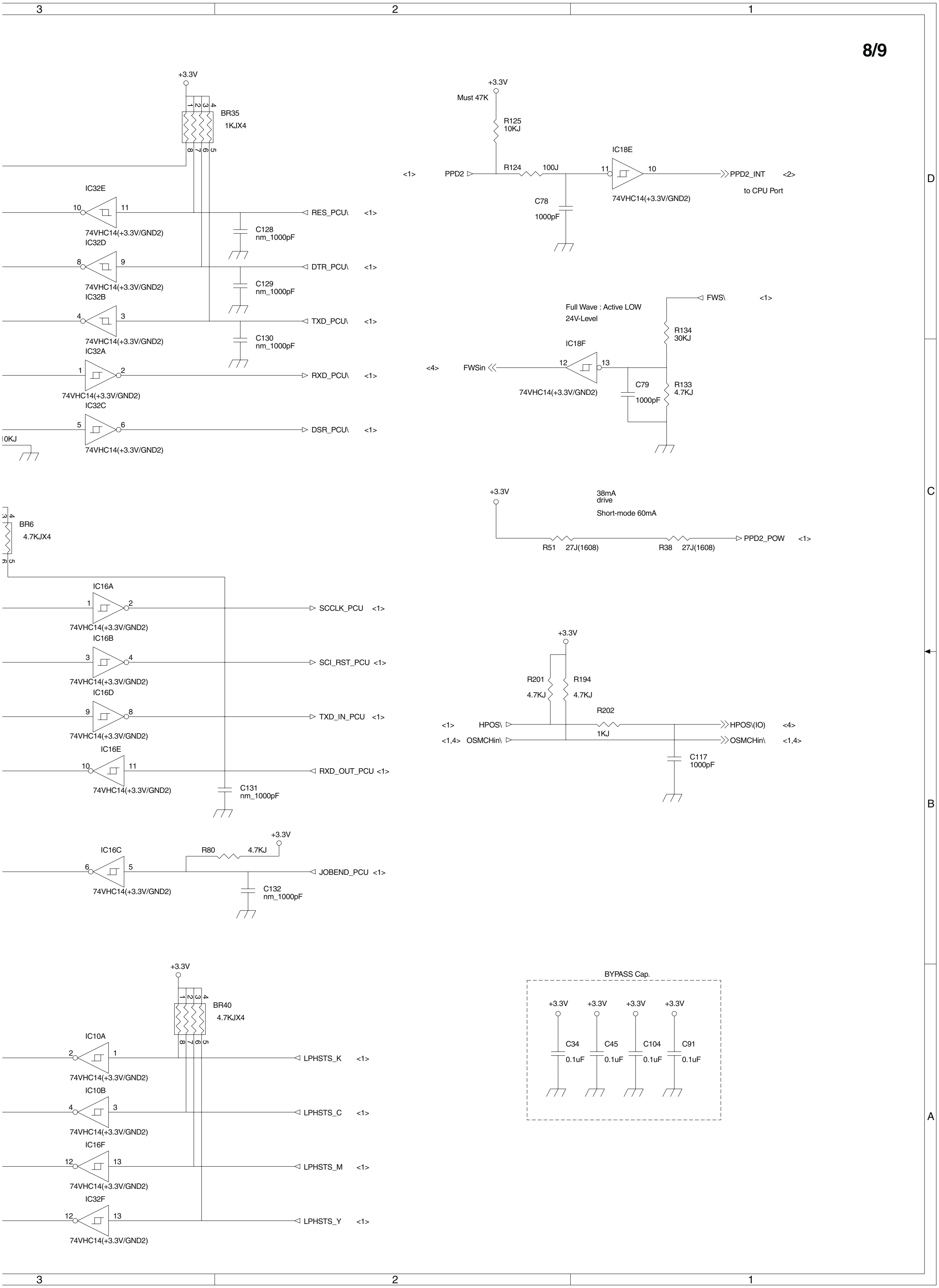
PCU PWB (Option UART & CRUM & Coin Vendor section)


8
7
6
5
D
C
B
A
Finisher & LCC
& DESK
Q13
DTC114YUA
<4> TXD_DESK
TXD_DESK\ <1>
<4>
+3.3V
4.7KJ
R24
+3.3V
1KJ
R14
Q16
DTC114YUA
<1> RXD_DESK\
C133
nm_1000pF
RXD_DESK <4>
Q14
DTC114YUA
<4> DTR_DESK
DTR_DESK\ <1>
R36
1KJ
R35
Q22
DTC114YUA
<1> DSR_DESK\
C134
nm_1000pF
DSR_DESK <4>
Q15
DTC114YUA
<4> TXD_LCC
TXD_LCC\ <1>
R58
R34
Q23
DTC114YUA
<1> RXD_LCC\
C135
nm_1000pF
RXD_LCC <4>
Q9
DTC114YUA
<4> DTR_LCC
DTR_LCC\ <1>
<6> DE
<4> RES_I
R30
R33
Q21
DTC114YUA
<1> DSR_LCC\
C136
nm_1000pF
DSR_LCC <4>
Q10
DTC114YUA
<4> TXD_FIN
TXD_FIN\ <1>
<6> L
<4> RES_
R37
R32
Q20
DTC114YUA
<1> RXD_FIN\
C137
nm_1000pF
RXD_FIN <4>
Q11
DTC114YUA
<4> DTR_FIN
DTR_FIN\ <1>
<6> I
R62
R31
Q19
DTC114YUA
<1> DSR_FIN\
C138
nm_1000pF
DSR_FIN <4>
R13
Q12
DTC114YUA
<4,8> TRC(IO)
TRC(OP) <1>
<4> RES
B
C
E
10K
47K
<2,3,4> D[15..0]
D15 D14 D13 D12 D11 D10 D9 D8
IC11
D0 D1 D2 D3 D4 D5 D6 D7
O0 O1 O2 O3 O4 O5 O6 O7
CP
OE
VCC
GND
74VHCT574A
IC6
I1 I2 I3 I4 I5 I6 I7 GND
O1 O2 O3 O4 O5 O6 O7 SK
TD62003AF
CV_SIZE0\ <1>
CV_SIZE1\ <1>
CV_SIZE2\ <1>
CV_SIZE3\ <1>
CV_RESERVE\ <1>
CV_COUNT\ <1>
CV_START\ <1>
IC9A
<2> CS_IO2\
<2,3,4> HWR\
74VHC32(+3.3V/GND2)
+3.3V
C23
0.1uF
Q2
DTC114YUA
CV_COLOR\ <1>
+3.3V
R59
4.7KJ
<4> CV_ACTIVE\
Coin Vendor

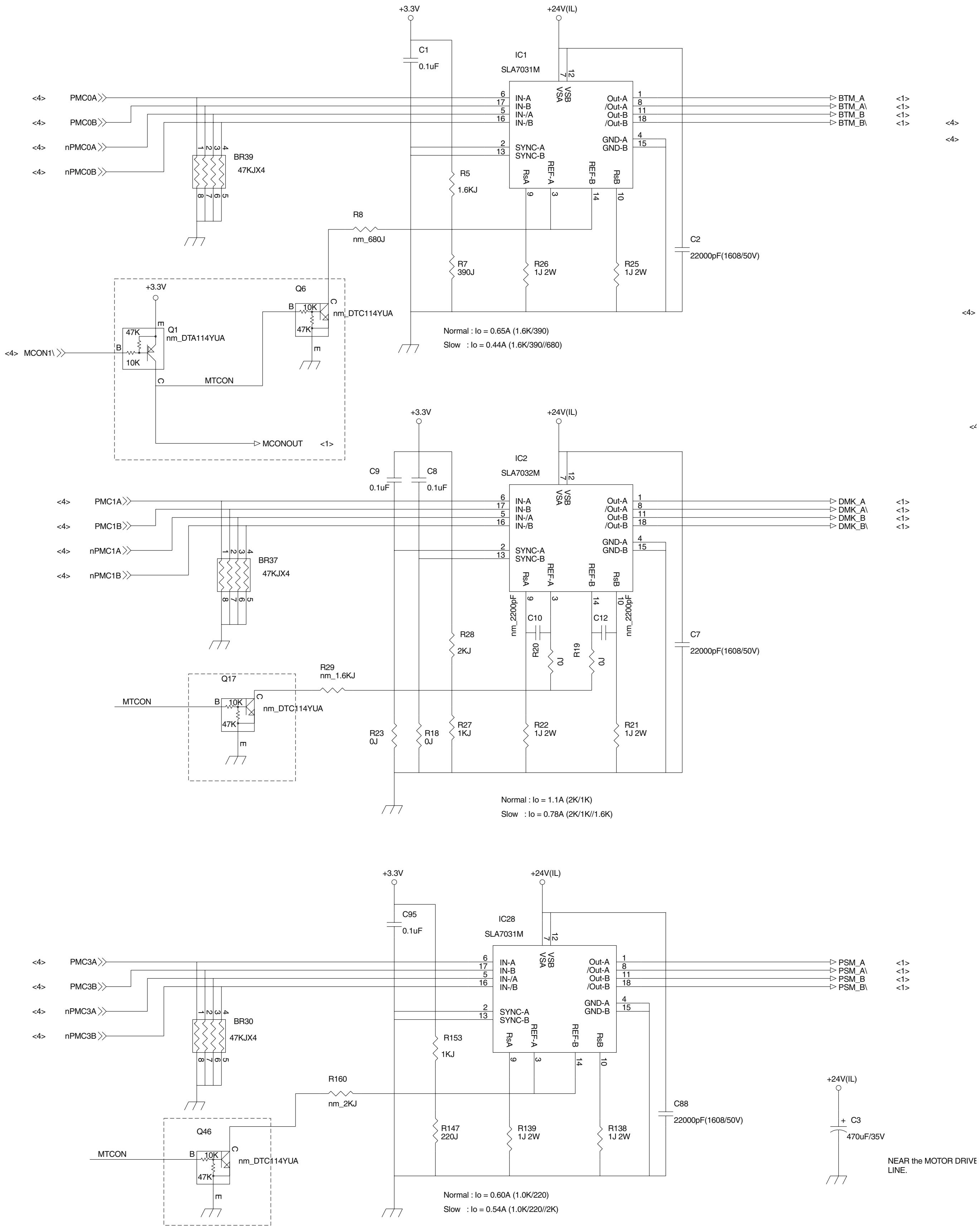

7/9
4
3
2
1
D
C
B
A
+5V
Q58
DTA114YUA
47K
10K
B
E
C
<4> CRUM_POWON\
CRUM_POW <1>
BR28
4.7KJX4
BR32
4.7KJX4
BR29
1KJX4
BR31
1KJX4
<4> CRUM_K_CLK
<4> CRUM_C_CLK
<4> CRUM_M_CLK
<4> CRUM_Y_CLK
DVK_CLK <1>
DVC_CLK <1>
DVM_CLK <1>
DVY_CLK <1>
<4> CRUM_K_DATA
<4> CRUM_C_DATA
<4> CRUM_M_DATA
<4> CRUM_Y_DATA
DVK_DATA <1>
DVC_DATA <1>
DVM_DATA <1>
DVY_DATA <1>
CRUM : IN(L)=0.3VCC
IC10D
<6> DESK_CHin
74VHC14(+3.3V/GND2)
R43
33J
RES_DESK <1>
Q18
DTC114YUA
<4> RES_DESK\(IO)
R42
100KJ
IC10E
<6> LCC_CHin
74VHC14(+3.3V/GND2)
R64
33J
RES_LCC <1>
Q24
DTC114YUA
<4> RES_LCC\(IO)
R56
100KJ
IC10F
<6> FIN_CHin
74VHC14(+3.3V/GND2)
R68
33J
RES_FIN <1>
Q27
DTC114YUA
<4> RES_FIN\(IO)
R61
100KJ
<4> DL_BLACK(IO)
R2
4.7KJ
Q4
2SA1576A
R4
56F(3216)
DL_BK_PWR <1>
<4> DL_COLOR(IO)
R3
4.7KJ
Q5
2SA1576A
R6
56F(3216)
DL_C_PWR <1>
R1
4.7KJ
Q3
2SA1576A
R9
56F(3216)
DL_M_PWR <1>
R10
4.7KJ
Q8
2SA1576A
R15
56F(3216)
DL_Y_PWR <1>
BYPASS Cap.
IC9B
74VHC32(+3.3V/GND2)
IC9C
74VHC32(+3.3V/GND2)
IC9D
74VHC32(+3.3V/GND2)
+3.3V
C20
0.1uF

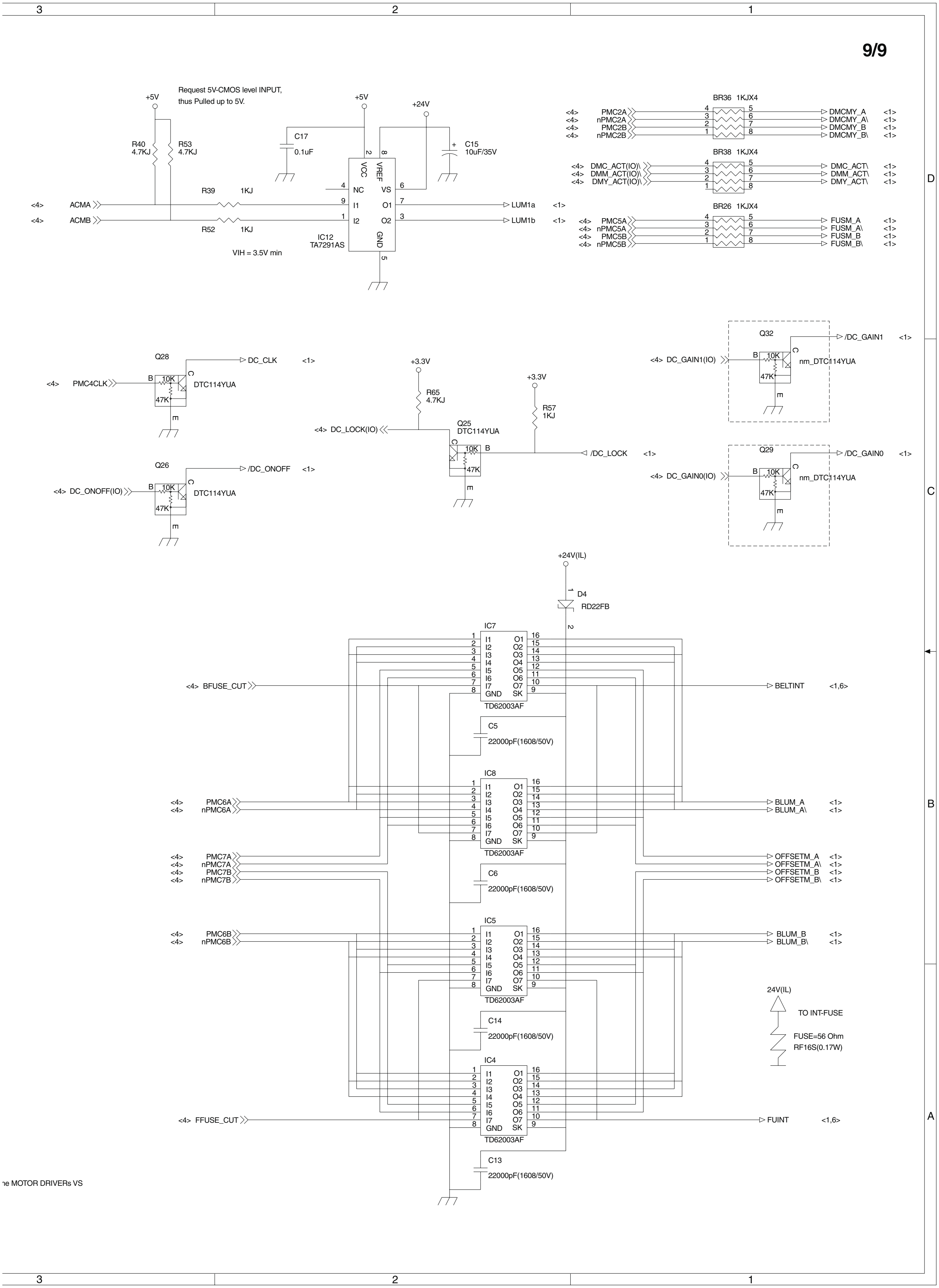
PCU PWB (2003 & HV & Interface Section)


5
4
3
D
C
B
A
IC3
<4> MTRC
<4> MPFC
<4,7> TRC(IO)
<4> CPFC1(IO)
<4> GSS
<4> PCALS
1 I1 O1 16
2 I2 O2 15
3 I3 O3 14
4 I4 O4 13
5 I5 O5 12
6 I6 O6 11
7 I7 O7 10
8 GND SK 9
TD62003AF
MTRC\ <1>
MPFC\ <1>
TRC\ <1>
CPFC1\ <1>
GSS\ <1>
CALS\ <1>
+24V(IL)
C4
22000pF(1608/50V)
IC33
<2> MAINPR
<2> DHPR
<2> NMLPR
MAINPR\ <1>
DHPR\ <1>
NMLPR\ <1>
TD62003AF
<2> RES_PCU(IN)
<2> DTR_PCU(IN)
<2> TXD_PCU(IN)
<2> RXD_PCU(OUT)
<2> DSR_PCU(OUT)
R149 10KJ
R186 4.7KJ
+5V
Q56
VFM_P_PWM\ <1>
<4,6> PWMOUT0
B 10K 47K C E
DTC114YUA
R88 4.7KJ
+5V
Q34
PSFM_PWM\ <1>
<2> PSFM_PWMOUT
DTC114YUA
+3.3V
BR6
4.7KJX4
1 2 3 4
8 7 6 5
<2> SCK(CPU)\
R187 4.7KJ
+5V
Q57
VFM_S_PWM\ <1>
<4,6> PWMOUT1
DTC114YUA
R171 4.7KJ
+5V
Q55
PWMFAN_ICU\ <1>
<2> PRTC_PWMOUT
DTC114YUA
R212
0J
R211 4.7KJ
+5V
Q60
PCFM_PWM\ <1>
<4> PWMFAN_ICU\(IO)
nm_DTC114YUA
<2> TRNS_RST(CPU)\
<2> TRNS_DAT(CPU)\
<2> RSV_DAT(CPU)\
<2> JOBBUSY(CPU)\
Q51
DTC114YUA
HVCLK\ <1>
<4> HVCLK(IO)
Q54
DTC114YUA
HVSTB\ <1>
<4> HVSTB(IO)
<2> STATUS_K\
<2> STATUS_C\
Q52
DTC114YUA
HVDATA\ <1>
<4> HVDATA(IO)
+5V
Q53
DTA114YUA
47K
10K
<4> HVREM\(IO)
R185 100J
HVREM <1>
<2> STATUS_M\
<2> STATUS_Y\


8/9
+3.3V
BR35
1KJX4
IC32E
74VHC14(+3.3V/GND2)
RES_PCU\ <1>
C128
nm_1000pF
IC32D
DTR_PCU\ <1>
C129
nm_1000pF
IC32B
TXD_PCU\ <1>
C130
nm_1000pF
IC32A
RXD_PCU\ <1>
IC32C
DSR_PCU\ <1>
10KJ
Must 47K
R125
10KJ
R124
100J
IC18E
<1> PPD2
PPD2_INT <2>
to CPU Port
C78
1000pF
FWS\ <1>
Full Wave : Active LOW
24V-Level
R134
30KJ
IC18F
<4> FWSin
C79
1000pF
R133
4.7KJ
38mA
drive
Short-mode 60mA
R51 27J(1608)
R38 27J(1608)
PPD2_POW <1>
BR6
4.7KJX4
IC16A
SCCLK_PCU <1>
IC16B
SCI_RST_PCU <1>
IC16D
TXD_IN_PCU <1>
IC16E
RXD_OUT_PCU <1>
C131
nm_1000pF
R201
4.7KJ
R194
4.7KJ
R202
1KJ
<1> HPOS\
<1,4> OSMCHin\
HPOS\(IO) <4>
OSMCHin\ <1,4>
C117
1000pF
IC16C
R80 4.7KJ
JOBEND_PCU <1>
C132
nm_1000pF
BR40
4.7KJX4
IC10A
LPHSTS_K <1>
IC10B
LPHSTS_C <1>
IC16F
LPHSTS_M <1>
IC32F
LPHSTS_Y <1>
BYPASS Cap.
C34 0.1uF
C45 0.1uF
C104 0.1uF
C91 0.1uF
1 2 3
A B C D

PCU PWB (Motor Driver Section)

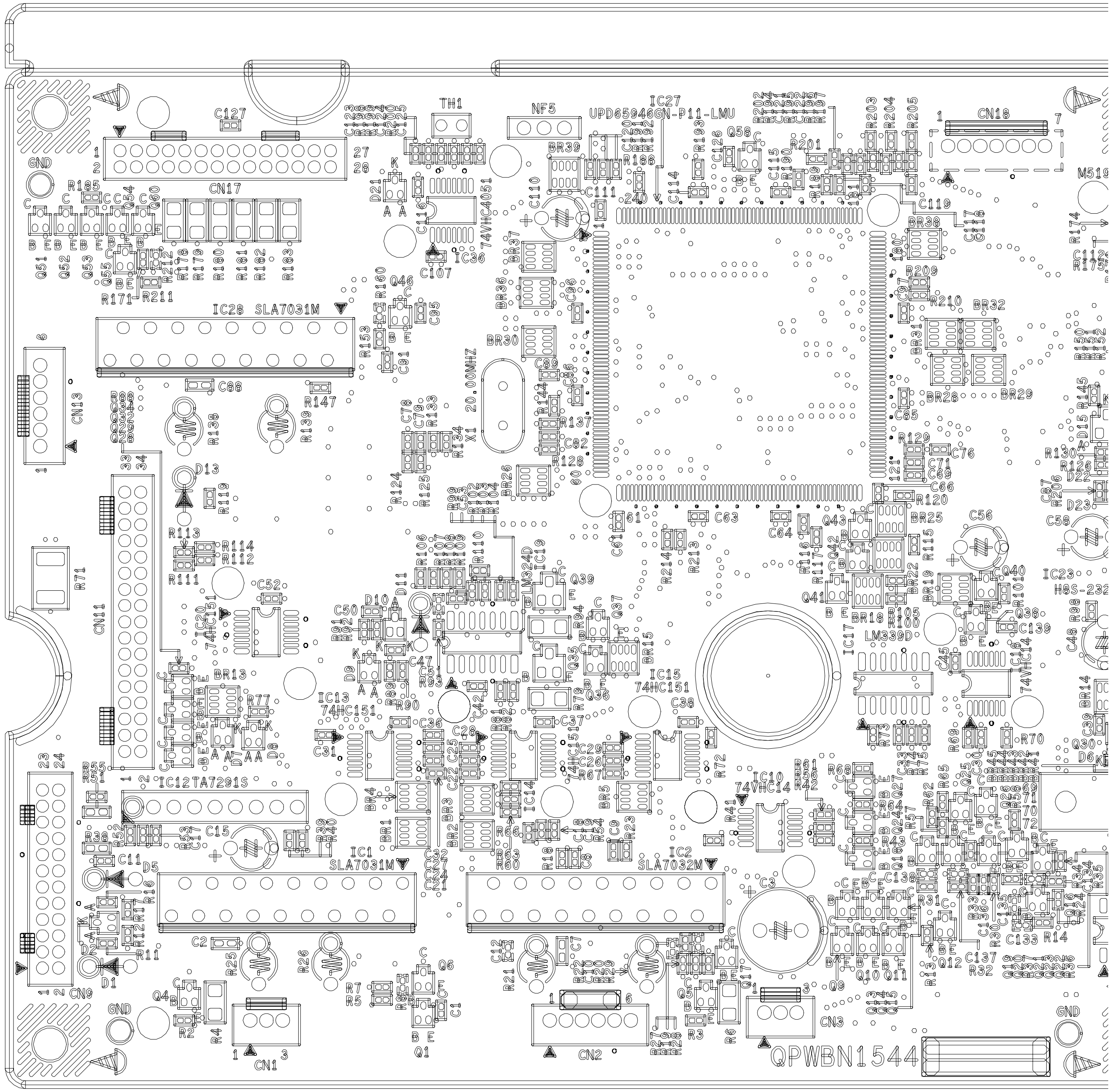

+3.3V
+24V(IL)
C1
0.1uF
IC1
SLA7031M
<4> PMC0A
<4> PMC0B
<4> nPMC0A
<4> nPMC0B
BR39
47KJX4
IN-A
IN-B
IN-/A
IN-/B
SYNC-A
SYNC-B
VSB
VSA
Out-A
/Out-A
Out-B
/Out-B
GND-A
GND-B
RsA
REF-A
REF-B
RsB
BTM_A <1>
BTM_A\ <1>
BTM_B <1>
BTM_B\ <1>
R5
1.6KJ
R8
nm_680J
C2
22000pF(1608/50V)
R7
390J
R26
1J 2W
R25
1J 2W
Q6
nm_DTC114YUA
10K
47K
Q1
nm_DTA114YUA
<4> MCON1\
MTCON
MCONOUT <1>
Normal : Io = 0.65A (1.6K/390)
Slow : Io = 0.44A (1.6K/390//680)
+3.3V
+24V(IL)
C9
0.1uF
C8
0.1uF
IC2
SLA7032M
<4> PMC1A
<4> PMC1B
<4> nPMC1A
<4> nPMC1B
BR37
47KJX4
DMK_A <1>
DMK_A\ <1>
DMK_B <1>
DMK_B\ <1>
nm_2200pF
C10
C12
R20
R19
0J
R28
2KJ
C7
22000pF(1608/50V)
R29
nm_1.6KJ
Q17
MTCON
nm_DTC114YUA
R23
0J
R18
0J
R27
1KJ
R22
1J 2W
R21
1J 2W
Normal : Io = 1.1A (2K/1K)
Slow : Io = 0.78A (2K/1K//1.6K)
+3.3V
+24V(IL)
C95
0.1uF
IC28
SLA7031M
<4> PMC3A
<4> PMC3B
<4> nPMC3A
<4> nPMC3B
BR30
47KJX4
PSM_A <1>
PSM_A\ <1>
PSM_B <1>
PSM_B\ <1>
R153
1KJ
R160
nm_2KJ
C88
22000pF(1608/50V)
+24V(IL)
C3
470uF/35V
NEAR the MOTOR DRIVE
LINE.
Q46
MTCON
nm_DTC114YUA
R147
220J
R139
1J 2W
R138
1J 2W
Normal : Io = 0.60A (1.0K/220)
Slow : Io = 0.54A (1.0K/220//2K)

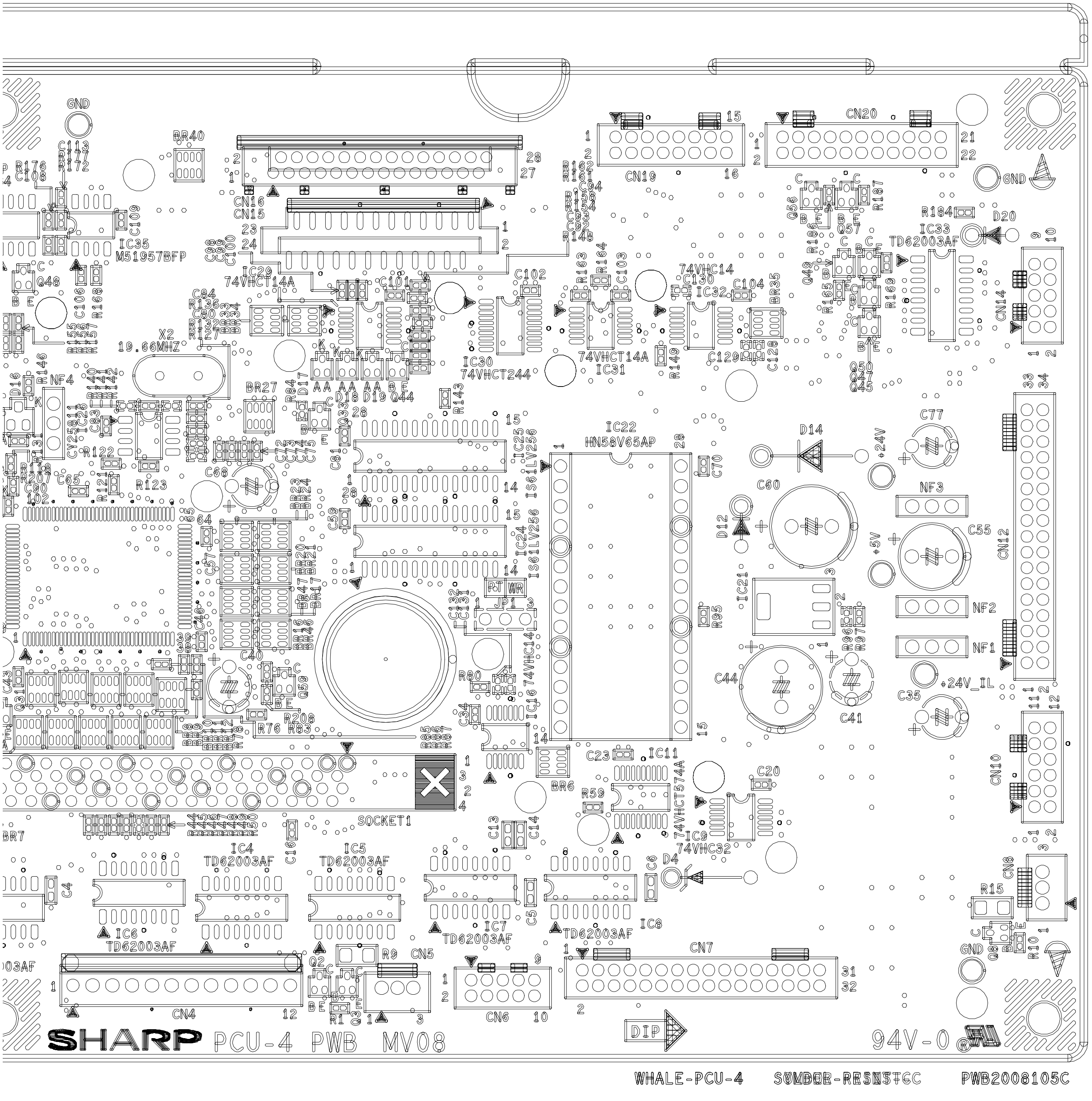

3
2
1
9/9
Request 5V-CMOS level INPUT,
thus Pulled up to 5V.
+5V
R40
4.7KJ
R53
4.7KJ
C17
0.1uF
+5V
+24V
C15
10uF/35V
R39 1KJ
R52 1KJ
<4> ACMA
<4> ACMB
VCC
VREF
NC
I1
I2
VS
O1
O2
GND
IC12
TA7291AS
VIH = 3.5V min
LUM1a <1>
LUM1b <1>
BR36 1KJX4
<4> PMC2A
<4> nPMC2A
<4> PMC2B
<4> nPMC2B
DMCMY_A <1>
DMCMY_A\ <1>
DMCMY_B <1>
DMCMY_B\ <1>
BR38 1KJX4
<4> DMC_ACT(IO)\
<4> DMM_ACT(IO)\
<4> DMY_ACT(IO)\
DMC_ACT\ <1>
DMM_ACT\ <1>
DMY_ACT\ <1>
BR26 1KJX4
<4> PMC5A
<4> nPMC5A
<4> PMC5B
<4> nPMC5B
FUSM_A <1>
FUSM_A\ <1>
FUSM_B <1>
FUSM_B\ <1>
D
Q28
<4> PMC4CLK
DTC114YUA
DC_CLK <1>
Q26
<4> DC_ONOFF(IO)
DTC114YUA
/DC_ONOFF <1>
+3.3V
R65
4.7KJ
<4> DC_LOCK(IO)
Q25
DTC114YUA
+3.3V
R57
1KJ
/DC_LOCK <1>
Q32
<4> DC_GAIN1(IO)
nm_DTC114YUA
/DC_GAIN1 <1>
Q29
<4> DC_GAIN0(IO)
nm_DTC114YUA
/DC_GAIN0 <1>
10K
47K
B
C
E
C
+24V(IL)
D4
RD22FB
IC7
TD62003AF
<4> BFUSE_CUT
BELTINT <1,6>
C5
22000pF(1608/50V)
IC8
TD62003AF
<4> PMC6A
<4> nPMC6A
BLUM_A <1>
BLUM_A\ <1>
<4> PMC7A
<4> nPMC7A
<4> PMC7B
<4> nPMC7B
OFFSETM_A <1>
OFFSETM_A\ <1>
OFFSETM_B <1>
OFFSETM_B\ <1>
C6
22000pF(1608/50V)
B
IC5
TD62003AF
<4> PMC6B
<4> nPMC6B
BLUM_B <1>
BLUM_B\ <1>
24V(IL)
TO INT-FUSE
FUSE=56 Ohm
RF16S(0.17W)
C14
22000pF(1608/50V)
IC4
TD62003AF
<4> FFUSE_CUT
FUINT <1,6>
A
C13
22000pF(1608/50V)
ne MOTOR DRIVERs VS
I1 I2 I3 I4 I5 I6 I7 GND
O1 O2 O3 O4 O5 O6 O7 SK
3
2
1

PCU PWB

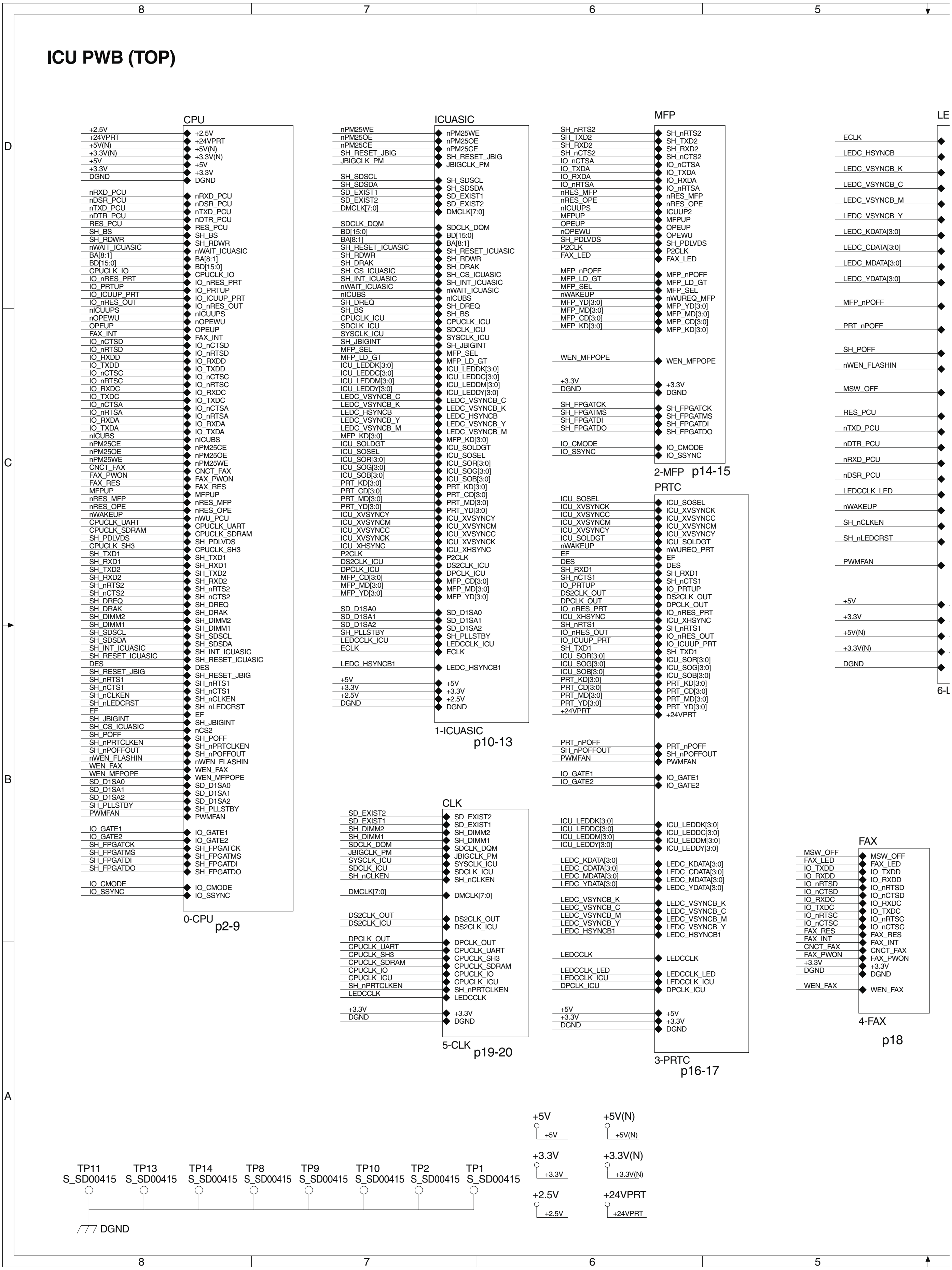
PARTS LAYOUT / 部品配置図

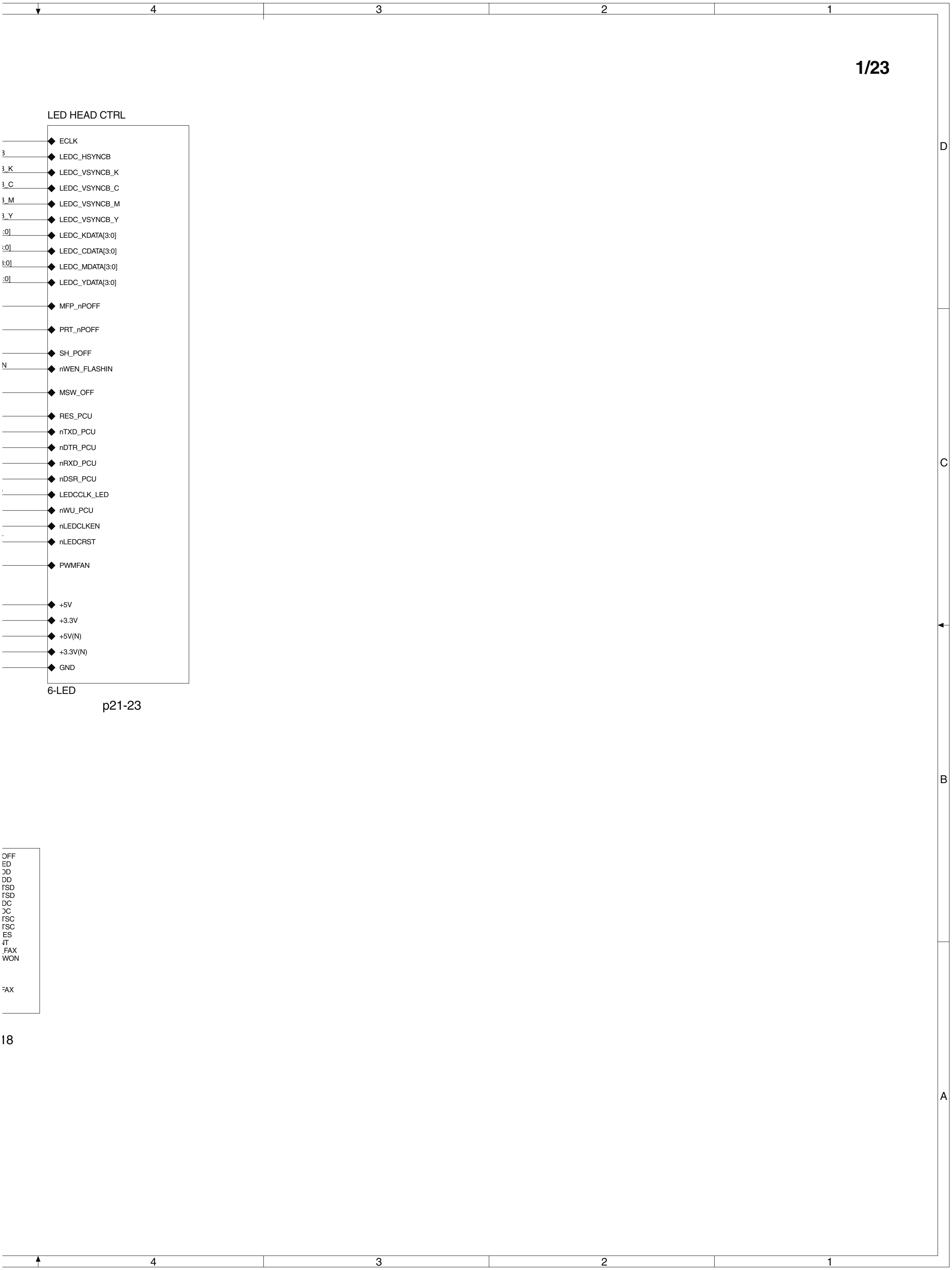
[PARTS SURFACE / 部品面]


CN17
CN18
CN13
CN11
CN9
CN1
CN2
CN3
TH1
NF5
IC27
UPD65946GN-P11-LMU
IC28 SLA7031M
IC36
74VHC4051
IC1
SLA7031M
IC2
SLA7032M
IC12 TA7291S
IC13
74HC151
IC15
74HC151
IC10
74VHC14
IC17
LM339D
IC23
H8S-232
IC14
IC19
LM324D
IC20
74AC151
IC18
74VHC14
X1
20.00MHZ
C110
C56
C58
C15
C3
GND
M519
QPWBN1544

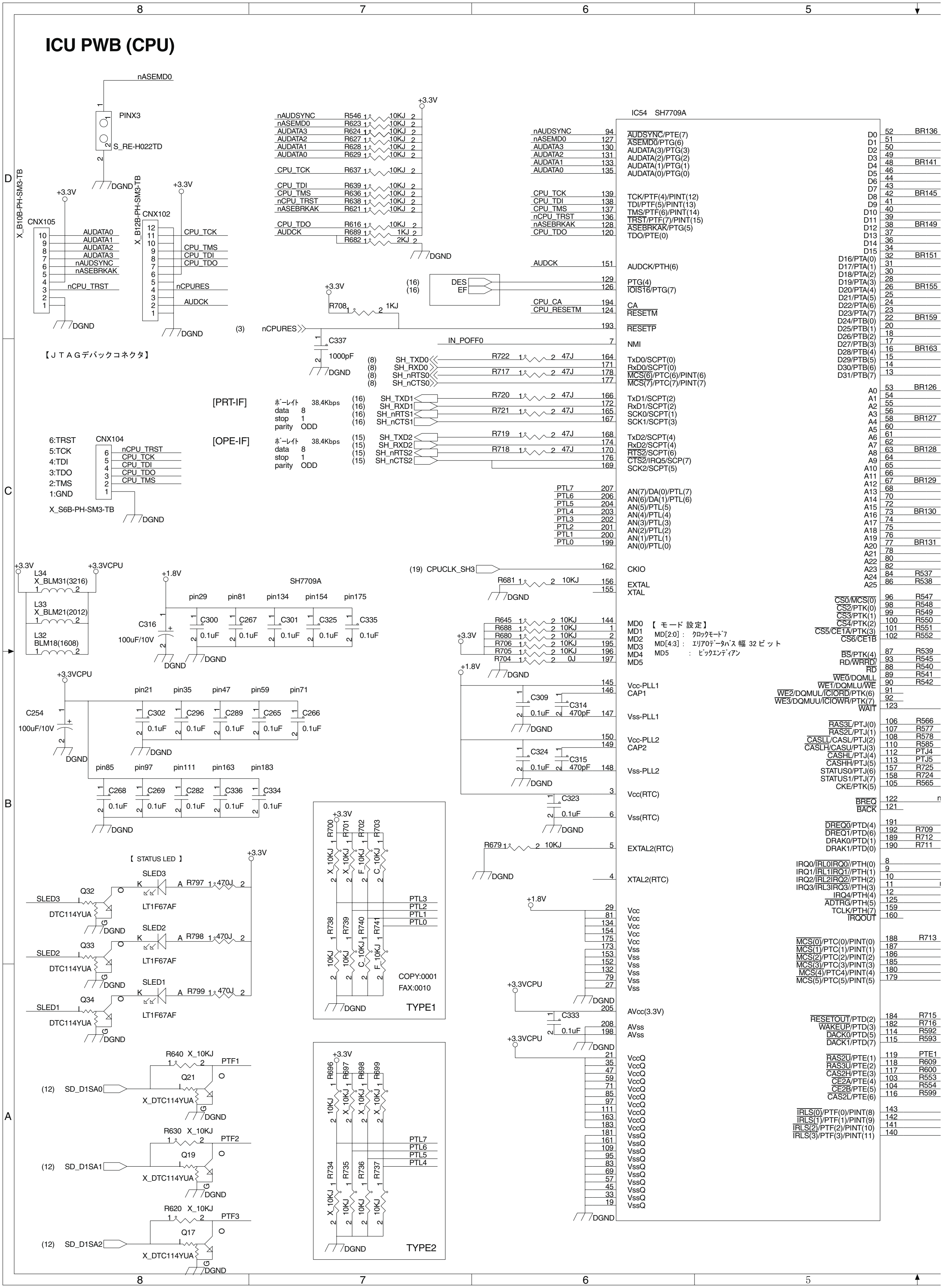

GND
BR40
CN16
CN15
CN19
CN20
C113
R176
R177
R172
C108
C109
IC35
M51957BFP
Q48
IC29
74VHCT14A
C84
R136
C80
R127
X2
19.66MHZ
NF4
BR27
D18
D19
Q44
IC30
74VHCT244
C101
C102
R163
R164
C103
74VHC14
C130
IC32
C104
BR35
74VHCT14A
IC31
R149
C129
C128
Q56
Q57
R187
R184
IC33
TD62003AF
D20
Q49
R165
R169
Q50
Q47
Q45
CN14
R122
R123
C68
C65
C90
R143
IC25
IS61LV256
IC24
IS61LV256
IC22
HN58V65AP
C70
D14
+24V
C77
C60
D12
NF3
C55
+5V
IC21
R95
R96
R97
NF2
NF1
CN12
C59
JP1
PT
WR
C131
C132
C40
Q59
R80
IC16
74VHC14
C44
C41
C35
+24V_IL
R76
R83
R208
C34
C23
IC11
74VHCT574A
C20
CN10
BR6
R59
IC9
74VHC32
SOCKET1
BR7
C16
IC4
TD62003AF
IC5
TD62003AF
C13
C14
D4
C9
CN9
R15
C4
IC6
TD62003AF
IC7
TD62003AF
C5
IC8
TD62003AF
Q2
R9
CN5
R1
CN4
CN6
CN7
Q8
R10
SHARP PCU-4 PWB MV08
DIP
94V-0
WHALE-PCU-4
S0MDBR-RESNSTCC
PWB2008105C

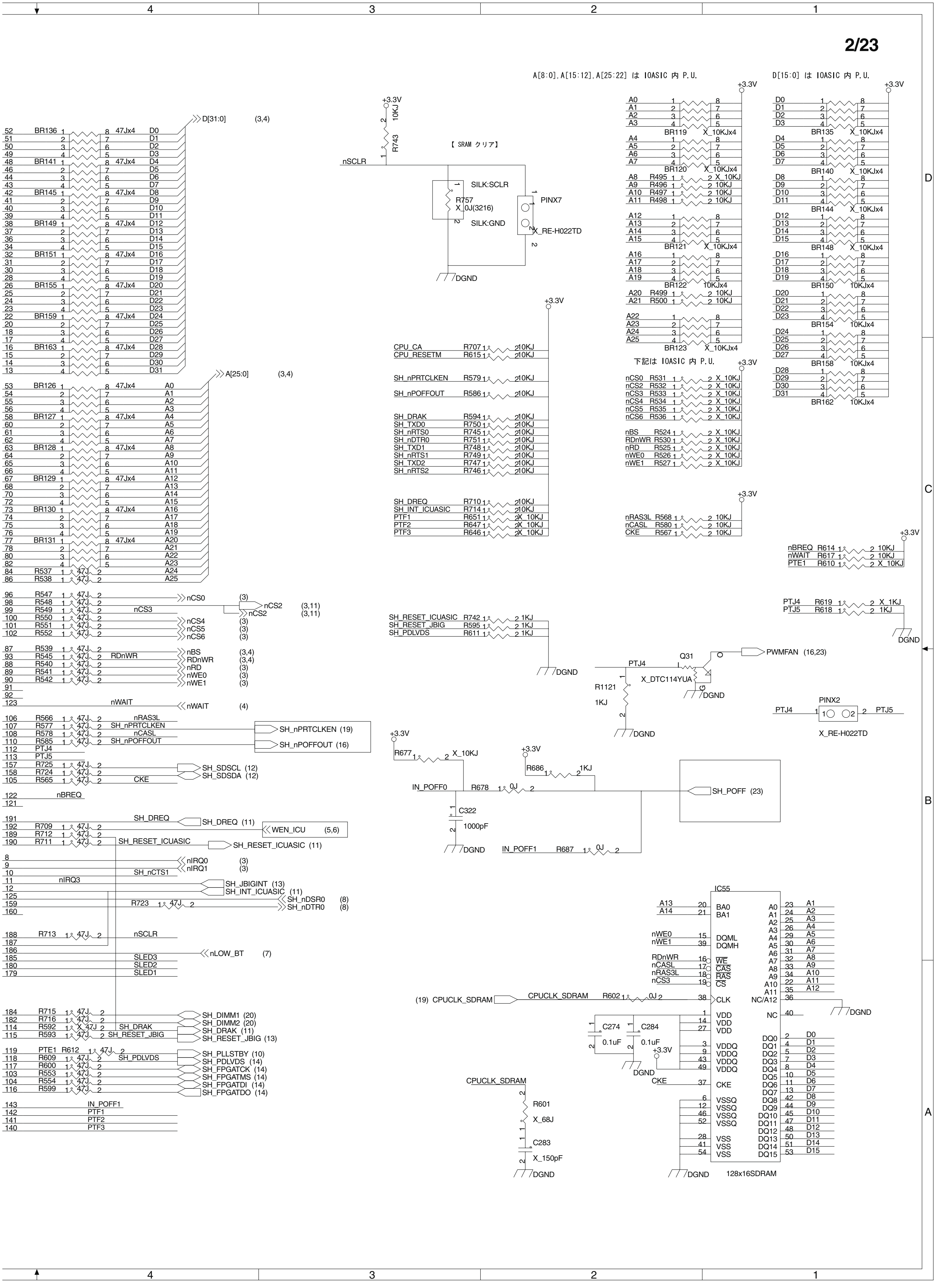
B. ICU PWB


ICU PWB (TOP)
8
7
6
5
D
C
B
A
CPU
0-CPU
p2-9
ICUASIC
1-ICUASIC
p10-13
MFP
2-MFP
p14-15
PRTC
3-PRTC
p16-17
FAX
4-FAX
p18
CLK
5-CLK
p19-20
LE
6-L
TP11
S_SD00415
TP13
S_SD00415
TP14
S_SD00415
TP8
S_SD00415
TP9
S_SD00415
TP10
S_SD00415
TP2
S_SD00415
TP1
S_SD00415
DGND
+5V
+5V(N)
+3.3V
+3.3V(N)
+2.5V
+24VPRT

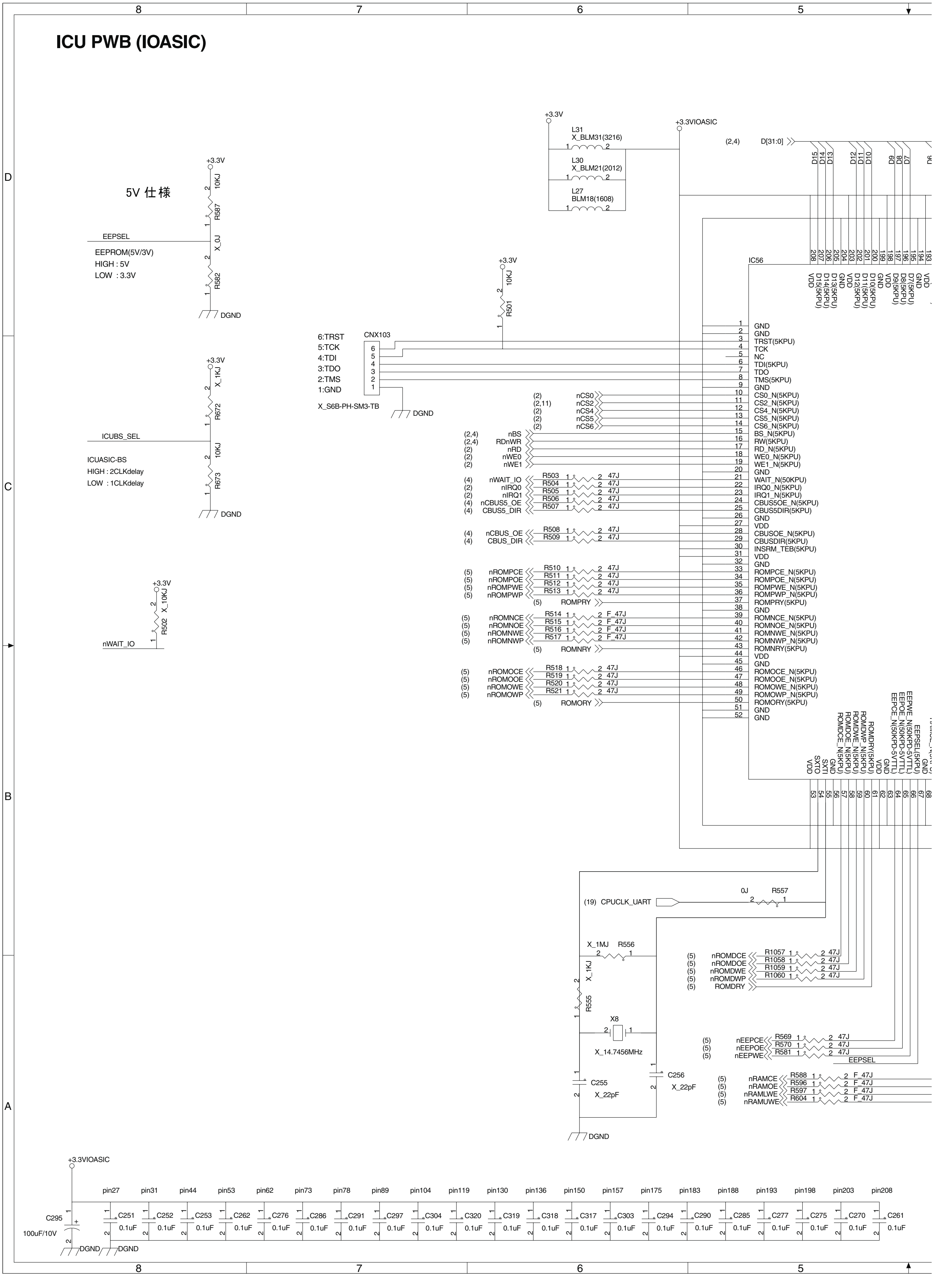

4
3
2
1
1/23
LED HEAD CTRL
ECLK
LEDC_HSYNCB
LEDC_VSYNCB_K
LEDC_VSYNCB_C
LEDC_VSYNCB_M
LEDC_VSYNCB_Y
LEDC_KDATA[3:0]
LEDC_CDATA[3:0]
LEDC_MDATA[3:0]
LEDC_YDATA[3:0]
MFP_nPOFF
PRT_nPOFF
SH_POFF
nWEN_FLASHIN
MSW_OFF
RES_PCU
nTXD_PCU
nDTR_PCU
nRXD_PCU
nDSR_PCU
LEDCCLK_LED
nWU_PCU
nLEDCLKEN
nLEDCRST
PWMFAN
+5V
+3.3V
+5V(N)
+3.3V(N)
GND
6-LED
p21-23
D
C
B
A

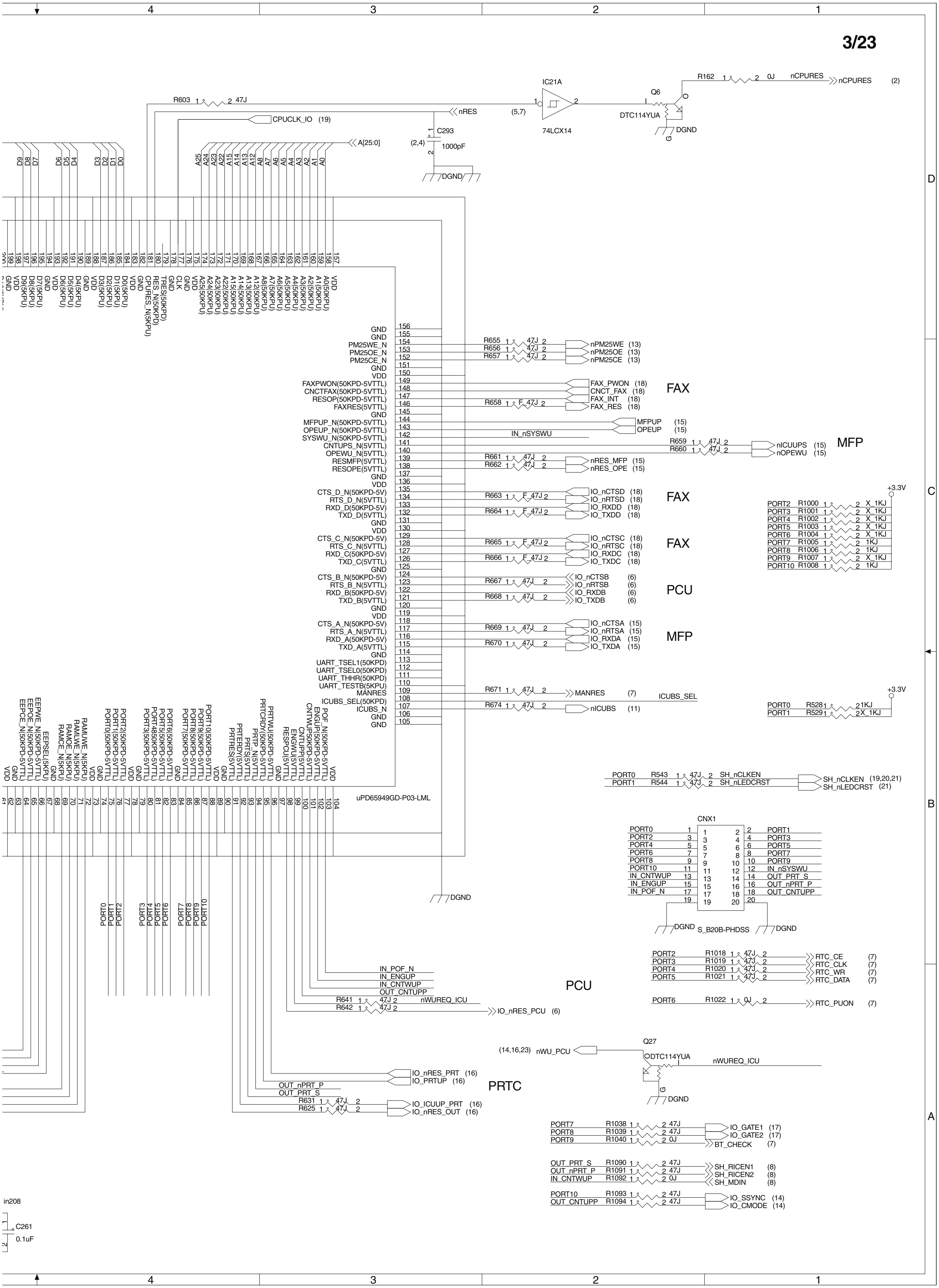
ICU PWB (CPU)


8
7
6
5
D
C
B
A
nASEMD0
PINX3
S_RE-H022TD
DGND
+3.3V
CNX105
X_B10B-PH-SM3-TB
AUDATA0
AUDATA1
AUDATA2
AUDATA3
nAUDSYNC
nASEBRKAK
nCPU_TRST
CNX102
X_B12B-PH-SM3-TB
CPU_TCK
CPU_TMS
CPU_TDI
CPU_TDO
nCPURES
AUDCK
【ＪＴＡＧデバックコネクタ】
R546
R623
R624
R627
R628
R629
R637
R639
R636
R638
R621
R616
R689
R682
10KJ
1KJ
2KJ
DES
EF
R708
C337
1000pF
IN_POFF0
SH_TXD0
SH_RXD0
SH_nRTS0
SH_nCTS0
[PRT-IF]
[OPE-IF]
ﾎﾞｰﾚｲﾄ 38.4Kbps
data 8
stop 1
parity ODD
SH_TXD1
SH_RXD1
SH_nRTS1
SH_nCTS1
SH_TXD2
SH_RXD2
SH_nRTS2
SH_nCTS2
R722
R717
R720
R721
R719
R718
47J
6:TRST
5:TCK
4:TDI
3:TDO
2:TMS
1:GND
CNX104
X_S6B-PH-SM3-TB
PTL7
PTL6
PTL5
PTL4
PTL3
PTL2
PTL1
PTL0
IC54 SH7709A
AUDSYNC/PTE(7)
ASEMD0/PTG(6)
AUDATA(3)/PTG(3)
AUDATA(2)/PTG(2)
AUDATA(1)/PTG(1)
AUDATA(0)/PTG(0)
TCK/PTF(4)/PINT(12)
TDI/PTF(5)/PINT(13)
TMS/PTF(6)/PINT(14)
TRST/PTF(7)/PINT(15)
ASEBRKAK/PTG(5)
TDO/PTE(0)
AUDCK/PTH(6)
PTG(4)
IOIS16/PTG(7)
CA
RESETM
RESETP
NMI
TxD0/SCPT(0)
RxD0/SCPT(0)
MCS(6)/PTC(6)/PINT(6)
MCS(7)/PTC(7)/PINT(7)
TxD1/SCPT(2)
RxD1/SCPT(2)
SCK0/SCPT(1)
SCK1/SCPT(3)
TxD2/SCPT(4)
RxD2/SCPT(4)
RTS2/SCPT(6)
CTS2/IRQ5/SCP(7)
SCK2/SCPT(5)
AN(7)/DA(0)/PTL(7)
AN(6)/DA(1)/PTL(6)
AN(5)/PTL(5)
AN(4)/PTL(4)
AN(3)/PTL(3)
AN(2)/PTL(2)
AN(1)/PTL(1)
AN(0)/PTL(0)
CKIO
EXTAL
XTAL
MD0
MD1
MD2
MD3
MD4
MD5
【 モード 設定】
MD[2:0] : ｸﾛｯｸﾓｰﾄﾞ7
MD[4:3] : ｴﾘｱ0ﾃﾞｰﾀﾊﾞｽ 幅 32 ビット
MD5 : ﾋﾞｯｸｴﾝﾃﾞｨｱﾝ
Vcc-PLL1
CAP1
Vss-PLL1
Vcc-PLL2
CAP2
Vss-PLL2
Vcc(RTC)
Vss(RTC)
EXTAL2(RTC)
XTAL2(RTC)
Vcc
Vss
AVcc(3.3V)
AVss
VccQ
VssQ
D0
D1
D2
D3
D4
D5
D6
D7
D8
D9
D10
D11
D12
D13
D14
D15
D16/PTA(0)
D17/PTA(1)
D18/PTA(2)
D19/PTA(3)
D20/PTA(4)
D21/PTA(5)
D22/PTA(6)
D23/PTA(7)
D24/PTB(0)
D25/PTB(1)
D26/PTB(2)
D27/PTB(3)
D28/PTB(4)
D29/PTB(5)
D30/PTB(6)
D31/PTB(7)
BR136
BR141
BR145
BR149
BR151
BR155
BR159
BR163
A0
A1
A2
A3
A4
A5
A6
A7
A8
A9
A10
A11
A12
A13
A14
A15
A16
A17
A18
A19
A20
A21
A22
A23
A24
A25
BR126
BR127
BR128
BR129
BR130
BR131
R537
R538
CS0/MCS(0)
CS2/PTK(0)
CS3/PTK(1)
CS4/PTK(2)
CS5/CE1A/PTK(3)
CS6/CE1B
R547
R548
R549
R550
R551
R552
BS/PTK(4)
RD/WR
RD
WE0/DQMLL
WE1/DQMLU/WE
WE2/DQMUL/ICIORD/PTK(6)
WE3/DQMUU/ICIOWR/PTK(7)
WAIT
R539
R545
R540
R541
R542
RAS3L/PTJ(0)
RAS2L/PTJ(1)
CASLL/CASL/PTJ(2)
CASLH/CASU/PTJ(3)
CASHL/PTJ(4)
CASHH/PTJ(5)
STATUS0/PTJ(6)
STATUS1/PTJ(7)
CKE/PTK(5)
R566
R577
R578
R585
PTJ4
PTJ5
R725
R724
R565
BREQ
BACK
DREQ0/PTD(4)
DREQ1/PTD(6)
DRAK0/PTD(1)
DRAK1/PTD(0)
R709
R712
R711
IRQ0/IRL0IRQ0/PTH(0)
IRQ1/IRL1IRQ1/PTH(1)
IRQ2/IRL2IRQ2/PTH(2)
IRQ3/IRL3IRQ3/PTH(3)
IRQ4/PTH(4)
ADTRG/PTH(5)
TCLK/PTH(7)
IRQOUT
MCS(0)/PTC(0)/PINT(0)
MCS(1)/PTC(1)/PINT(1)
MCS(2)/PTC(2)/PINT(2)
MCS(3)/PTC(3)/PINT(3)
MCS(4)/PTC4/PINT(4)
MCS(5)/PTC(5)/PINT(5)
R713
RESETOUT/PTD(2)
WAKEUP/PTD(3)
DACK0/PTD(5)
DACK1/PTD(7)
R715
R716
R592
R593
RAS2U/PTE(1)
RAS3U/PTE(2)
CAS2H/PTE(3)
CE2A/PTE(4)
CE2B/PTE(5)
CAS2L/PTE(6)
PTE1
R609
R600
R553
R554
R599
IRLS(0)/PTF(0)/PINT(8)
IRLS(1)/PTF(1)/PINT(9)
IRLS(2)/PTF(2)/PINT(10)
IRLS(3)/PTF(3)/PINT(11)
(19) CPUCLK_SH3
R681
R645
R688
R680
R706
R705
R704
0J
+1.8V
C309
C314
470pF
C324
C315
C323
C333
R679
+3.3VCPU
L34
X_BLM31(3216)
L33
X_BLM21(2012)
L32
BLM18(1608)
SH7709A
pin29
pin81
pin134
pin154
pin175
C316
100uF/10V
C300
C267
C301
C325
C335
0.1uF
C254
pin21
pin35
pin47
pin59
pin71
C302
C296
C289
C265
C266
pin85
pin97
pin111
pin163
pin183
C268
C269
C282
C336
C334
【 STATUS LED 】
SLED3
SLED2
SLED1
Q32
Q33
Q34
DTC114YUA
LT1F67AF
R797
R798
R799
470J
K
A
R640 X_10KJ
R630 X_10KJ
R620 X_10KJ
PTF1
PTF2
PTF3
Q21
Q19
Q17
(12) SD_D1SA0
(12) SD_D1SA1
(12) SD_D1SA2
X_DTC114YUA
R700
R701
R702
R703
X_10KJ
F_10KJ
C_10KJ
R738
R739
R740
R741
COPY:0001
FAX:0010
TYPE1
R696
R697
R698
R699
R734
R735
R736
R737
TYPE2

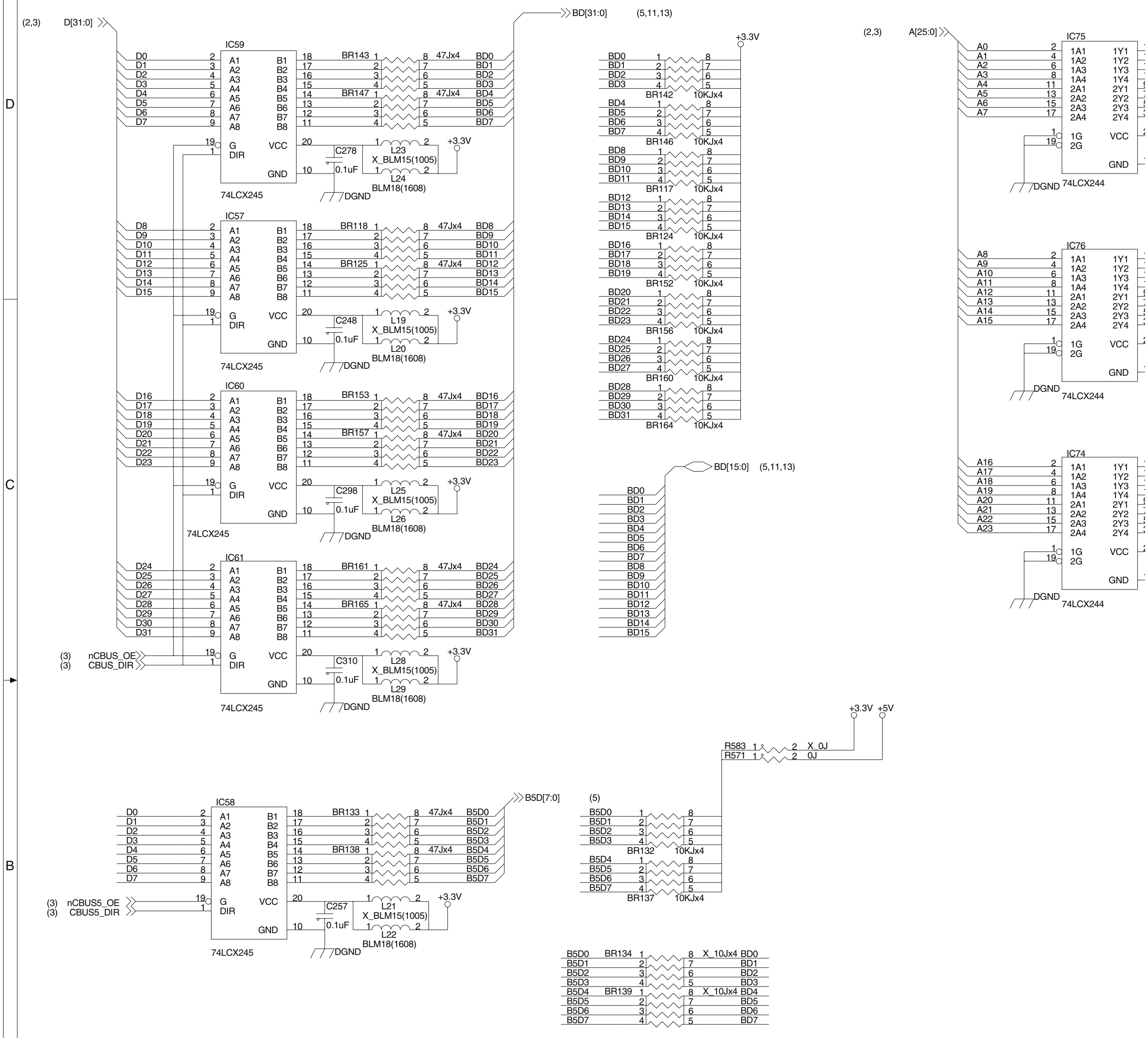

4
3
2
1
D
C
B
A
A[8:0],A[15:12],A[25:22] は IOASIC 内 P.U.
D[15:0] は IOASIC 内 P.U.
下記は IOASIC 内 P.U.
【 SRAM クリア】
+3.3V
D[31:0] (3,4)
A[25:0] (3,4)
BR136 47Jx4
BR141 47Jx4
BR145 47Jx4
BR149 47Jx4
BR151 47Jx4
BR155 47Jx4
BR159 47Jx4
BR163 47Jx4
BR126 47Jx4
BR127 47Jx4
BR128 47Jx4
BR129 47Jx4
BR130 47Jx4
BR131 47Jx4
R537 47J A24
R538 47J A25
R547 47J nCS0 (3)
R548 47J
R549 47J nCS3
nCS2 (3,11)
nCS2 (3,11)
R550 47J nCS4 (3)
R551 47J nCS5 (3)
R552 47J nCS6 (3)
R539 47J nBS (3,4)
R545 47J RDnWR (3,4)
R540 47J nRD (3)
R541 47J nWE0 (3)
R542 47J nWE1 (3)
nWAIT (4)
R566 47J nRAS3L
R577 47J SH_nPRTCLKEN
R578 47J nCASL
R585 47J SH_nPOFFOUT
SH_nPRTCLKEN (19)
SH_nPOFFOUT (16)
PTJ4
PTJ5
R725 47J SH_SDSCL (12)
R724 47J SH_SDSDA (12)
R565 47J CKE
nBREQ
SH_DREQ
SH_DREQ (11)
R709 47J
R712 47J
WEN_ICU (5,6)
R711 47J SH_RESET_ICUASIC
SH_RESET_ICUASIC (11)
nIRQ0 (3)
nIRQ1 (3)
SH_nCTS1
nIRQ3
SH_JBIGINT (13)
SH_INT_ICUASIC (11)
R723 47J
SH_nDSR0 (8)
SH_nDTR0 (8)
R713 47J nSCLR
nLOW_BT (7)
SLED3
SLED2
SLED1
R715 47J SH_DIMM1 (20)
R716 47J SH_DIMM2 (20)
R592 X_47J SH_DRAK SH_DRAK (11)
R593 47J SH_RESET_JBIG SH_RESET_JBIG (13)
PTE1 R612 47J SH_PLLSTBY (10)
R609 47J SH_PDLVDS SH_PDLVDS (14)
R600 47J SH_FPGATCK (14)
R553 47J SH_FPGATMS (14)
R554 47J SH_FPGATDI (14)
R599 47J SH_FPGATDO (14)
IN_POFF1
PTF1
PTF2
PTF3
R743 10KJ
nSCLR
SILK:SCLR
R757
X_0J(3216)
SILK:GND
PINX7
X_RE-H022TD
DGND
CPU_CA R707 10KJ
CPU_RESETM R615 10KJ
SH_nPRTCLKEN R579 10KJ
SH_nPOFFOUT R586 10KJ
SH_DRAK R594 10KJ
SH_TXD0 R750 10KJ
SH_nRTS0 R745 10KJ
SH_nDTR0 R751 10KJ
SH_TXD1 R748 10KJ
SH_nRTS1 R749 10KJ
SH_TXD2 R747 10KJ
SH_nRTS2 R746 10KJ
SH_DREQ R710 10KJ
SH_INT_ICUASIC R714 10KJ
PTF1 R651 X_10KJ
PTF2 R647 X_10KJ
PTF3 R646 X_10KJ
SH_RESET_ICUASIC R742 1KJ
SH_RESET_JBIG R595 1KJ
SH_PDLVDS R611 1KJ
BR119 X_10KJx4
BR120 X_10KJx4
A8 R495 X_10KJ
A9 R496 10KJ
A10 R497 10KJ
A11 R498 10KJ
BR121 X_10KJx4
BR122 10KJx4
A20 R499 10KJ
A21 R500 10KJ
BR123 X_10KJx4
BR135 X_10KJx4
BR140 X_10KJx4
BR144 X_10KJx4
BR148 X_10KJx4
BR150 10KJx4
BR154 10KJx4
BR158 10KJx4
BR162 10KJx4
nCS0 R531 X_10KJ
nCS2 R532 X_10KJ
nCS3 R533 X_10KJ
nCS4 R534 X_10KJ
nCS5 R535 X_10KJ
nCS6 R536 X_10KJ
nBS R524 X_10KJ
RDnWR R530 X_10KJ
nRD R525 X_10KJ
nWE0 R526 X_10KJ
nWE1 R527 X_10KJ
nRAS3L R568 10KJ
nCASL R580 10KJ
CKE R567 10KJ
nBREQ R614 10KJ
nWAIT R617 10KJ
PTE1 R610 X_10KJ
PTJ4 R619 X_1KJ
PTJ5 R618 1KJ
Q31
X_DTC114YUA
PWMFAN (16,23)
R1121
1KJ
PINX2
X_RE-H022TD
R677 X_10KJ
IN_POFF0
R686 1KJ
R678 0J
SH_POFF (23)
C322
1000pF
IN_POFF1 R687 0J
IC55
A13 BA0
A14 BA1
nWE0 DQML
nWE1 DQMH
RDnWR WE
nCASL CAS
nRAS3L RAS
nCS3 CS
(19) CPUCLK_SDRAM
CPUCLK_SDRAM R602 0J CLK
NC/A12
NC
VDD
VDDQ
C274 0.1uF
C284 0.1uF
CKE
VSSQ
VSS
CPUCLK_SDRAM
R601
X_68J
C283
X_150pF
128x16SDRAM

ICU PWB (IOASIC)

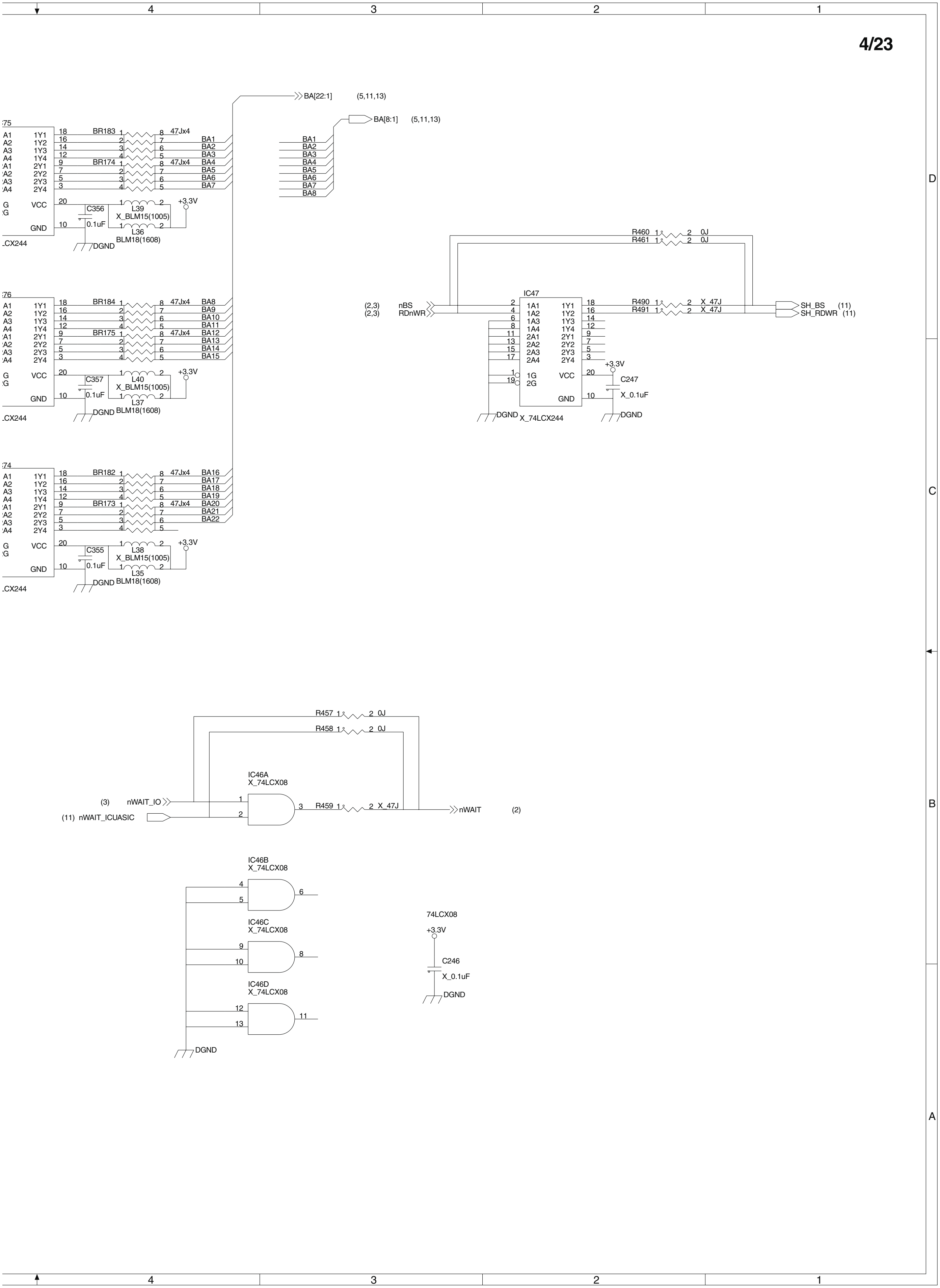

8
7
6
5
D
C
B
A
5V 仕様
+3.3V
R587 10KJ
EEPSEL
EEPROM(5V/3V)
HIGH : 5V
LOW : 3.3V
X_0J
R582
DGND
R672 X_1KJ
ICUBS_SEL
ICUASIC-BS
HIGH : 2CLKdelay
LOW : 1CLKdelay
R673 10KJ
R502 X_10KJ
nWAIT_IO
L31 X_BLM31(3216)
L30 X_BLM21(2012)
L27 BLM18(1608)
+3.3VIOASIC
D[31:0]
(2,4)
R501 10KJ
CNX103
6:TRST
5:TCK
4:TDI
3:TDO
2:TMS
1:GND
X_S6B-PH-SM3-TB
IC56
GND
TRST(5KPU)
TCK
NC
TDI(5KPU)
TDO
TMS(5KPU)
CS0_N(5KPU)
CS2_N(5KPU)
CS4_N(5KPU)
CS5_N(5KPU)
CS6_N(5KPU)
BS_N(5KPU)
RW(5KPU)
RD_N(5KPU)
WE0_N(5KPU)
WE1_N(5KPU)
WAIT_N(50KPU)
IRQ0_N(5KPU)
IRQ1_N(5KPU)
CBUS5OE_N(5KPU)
CBUS5DIR(5KPU)
VDD
CBUSOE_N(5KPU)
CBUSDIR(5KPU)
INSRM_TEB(5KPU)
ROMPCE_N(5KPU)
ROMPOE_N(5KPU)
ROMPWE_N(5KPU)
ROMPWP_N(5KPU)
ROMPRY(5KPU)
ROMNCE_N(5KPU)
ROMNOE_N(5KPU)
ROMNWE_N(5KPU)
ROMNWP_N(5KPU)
ROMNRY(5KPU)
ROMOCE_N(5KPU)
ROMOOE_N(5KPU)
ROMOWE_N(5KPU)
ROMOWP_N(5KPU)
ROMORY(5KPU)
D15(5KPU)
D14(5KPU)
D13(5KPU)
D12(5KPU)
D11(5KPU)
D10(5KPU)
D9(5KPU)
D8(5KPU)
D7(5KPU)
VDD
SXTO
SXTI
ROMDCE_N(5KPU)
ROMDOE_N(5KPU)
ROMDWE_N(5KPU)
ROMDWP_N(5KPU)
ROMDRY(5KPU)
EEPCE_N(50KPD-5VTTL)
EEPOE_N(50KPD-5VTTL)
EEPWE_N(50KPD-5VTTL)
EEPSEL(5KPU)
nCS0
nCS2
nCS4
nCS5
nCS6
nBS
RDnWR
nRD
nWE0
nWE1
nWAIT_IO
nIRQ0
nIRQ1
nCBUS5_OE
CBUS5_DIR
nCBUS_OE
CBUS_DIR
nROMPCE
nROMPOE
nROMPWE
nROMPWP
ROMPRY
nROMNCE
nROMNOE
nROMNWE
nROMNWP
ROMNRY
nROMOCE
nROMOOE
nROMOWE
nROMOWP
ROMORY
R503 R504 R505 R506 R507 47J
R508 R509 47J
R510 R511 R512 R513 47J
R514 R515 R516 R517 F_47J
R518 R519 R520 R521 47J
(19) CPUCLK_UART
R557 0J
R556 X_1MJ
R555 X_1KJ
X8 X_14.7456MHz
C255 X_22pF
C256 X_22pF
nROMDCE
nROMDOE
nROMDWE
nROMDWP
ROMDRY
R1057 R1058 R1059 R1060 47J
nEEPCE
nEEPOE
nEEPWE
R569 R570 R581 47J
EEPSEL
nRAMCE
nRAMOE
nRAMLWE
nRAMUWE
R588 R596 R597 R604 F_47J
C295 100uF/10V
pin27 pin31 pin44 pin53 pin62 pin73 pin78 pin89 pin104 pin119 pin130 pin136 pin150 pin157 pin175 pin183 pin188 pin193 pin198 pin203 pin208
C251 C252 C253 C262 C276 C286 C291 C297 C304 C320 C319 C318 C317 C303 C294 C290 C285 C277 C275 C270 C261
0.1uF


3/23
IC21A
74LCX14
Q6
DTC114YUA
R162 1 2 0J nCPURES
nCPURES (2)
R603 1 2 47J
nRES (5,7)
CPUCLK_IO (19)
C293 1000pF (2,4)
DGND
A[25:0]
uPD65949GD-P03-LML
GND
PM25WE_N
PM25OE_N
PM25CE_N
VDD
FAXPWON(50KPD-5VTTL)
CNCTFAX(50KPD-5VTTL)
RESOP(50KPD-5VTTL)
FAXRES(5VTTL)
MFPUP_N(50KPD-5VTTL)
OPEUP_N(50KPD-5VTTL)
SYSWU_N(50KPD-5VTTL)
CNTUPS_N(5VTTL)
OPEWU_N(5VTTL)
RESMFP(5VTTL)
RESOPE(5VTTL)
CTS_D_N(50KPD-5V)
RTS_D_N(5VTTL)
RXD_D(50KPD-5V)
TXD_D(5VTTL)
CTS_C_N(50KPD-5V)
RTS_C_N(5VTTL)
RXD_C(50KPD-5V)
TXD_C(5VTTL)
CTS_B_N(50KPD-5V)
RTS_B_N(5VTTL)
RXD_B(50KPD-5V)
TXD_B(5VTTL)
CTS_A_N(50KPD-5V)
RTS_A_N(5VTTL)
RXD_A(50KPD-5V)
TXD_A(5VTTL)
UART_TSEL1(50KPD)
UART_TSEL0(50KPD)
UART_THHR(50KPD)
UART_TESTB(5KPU)
MANRES
ICUBS_SEL(50KPD)
ICUBS_N
nPM25WE (13)
nPM25OE (13)
nPM25CE (13)
FAX_PWON (18)
CNCT_FAX (18)
FAX_INT (18)
FAX_RES (18)
FAX
MFPUP (15)
OPEUP (15)
IN_nSYSWU
nICUUPS (15)
nOPEWU (15)
MFP
nRES_MFP (15)
nRES_OPE (15)
IO_nCTSD (18)
IO_nRTSD (18)
IO_RXDD (18)
IO_TXDD (18)
IO_nCTSC (18)
IO_nRTSC (18)
IO_RXDC (18)
IO_TXDC (18)
IO_nCTSB (6)
IO_nRTSB (6)
IO_RXDB (6)
IO_TXDB (6)
PCU
IO_nCTSA (15)
IO_nRTSA (15)
IO_RXDA (15)
IO_TXDA (15)
MANRES (7)
ICUBS_SEL
nICUBS (11)
+3.3V
PORT2 R1000 X_1KJ
PORT3 R1001 X_1KJ
PORT4 R1002 X_1KJ
PORT5 R1003 X_1KJ
PORT6 R1004 X_1KJ
PORT7 R1005 1KJ
PORT8 R1006 1KJ
PORT9 R1007 X_1KJ
PORT10 R1008 1KJ
PORT0 R528 1KJ
PORT1 R529 X_1KJ
PORT0 R543 47J SH_nCLKEN
PORT1 R544 47J SH_nLEDCRST
SH_nCLKEN (19,20,21)
SH_nLEDCRST (21)
CNX1
S_B20B-PHDSS
IN_CNTWUP
IN_ENGUP
IN_POF_N
IN_nSYSWU
OUT_PRT_S
OUT_nPRT_P
OUT_CNTUPP
PORT2 R1018 47J RTC_CE (7)
PORT3 R1019 47J RTC_CLK (7)
PORT4 R1020 47J RTC_WR (7)
PORT5 R1021 47J RTC_DATA (7)
PORT6 R1022 0J RTC_PUON (7)
IN_POF_N
IN_ENGUP
IN_CNTWUP
OUT_CNTUPP
R641 47J nWUREQ_ICU
R642 47J IO_nRES_PCU (6)
Q27
DTC114YUA
(14,16,23) nWU_PCU
nWUREQ_ICU
IO_nRES_PRT (16)
IO_PRTUP (16)
PRTC
OUT_nPRT_P
OUT_PRT_S
R631 47J IO_ICUUP_PRT (16)
R625 47J IO_nRES_OUT (16)
PORT7 R1038 47J IO_GATE1 (17)
PORT8 R1039 47J IO_GATE2 (17)
PORT9 R1040 0J BT_CHECK (7)
OUT_PRT_S R1090 47J SH_RICEN1 (8)
OUT_nPRT_P R1091 47J SH_RICEN2 (8)
IN_CNTWUP R1092 0J SH_MDIN (8)
PORT10 R1093 47J IO_SSYNC (14)
OUT_CNTUPP R1094 47J IO_CMODE (14)
in208
C261
0.1uF
4
3
2
1
A
B
C
D

ICU PWB (CPUBUS)

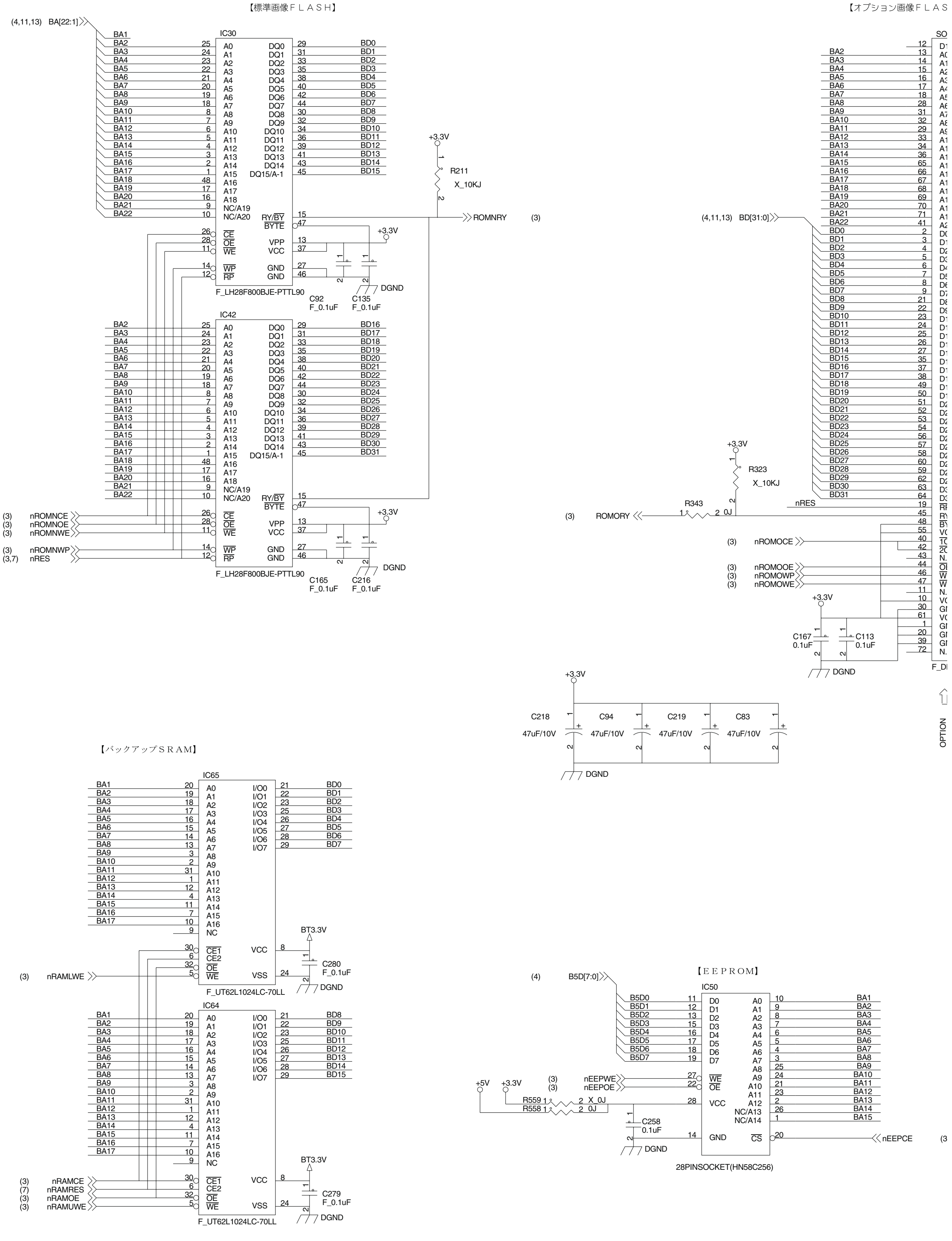


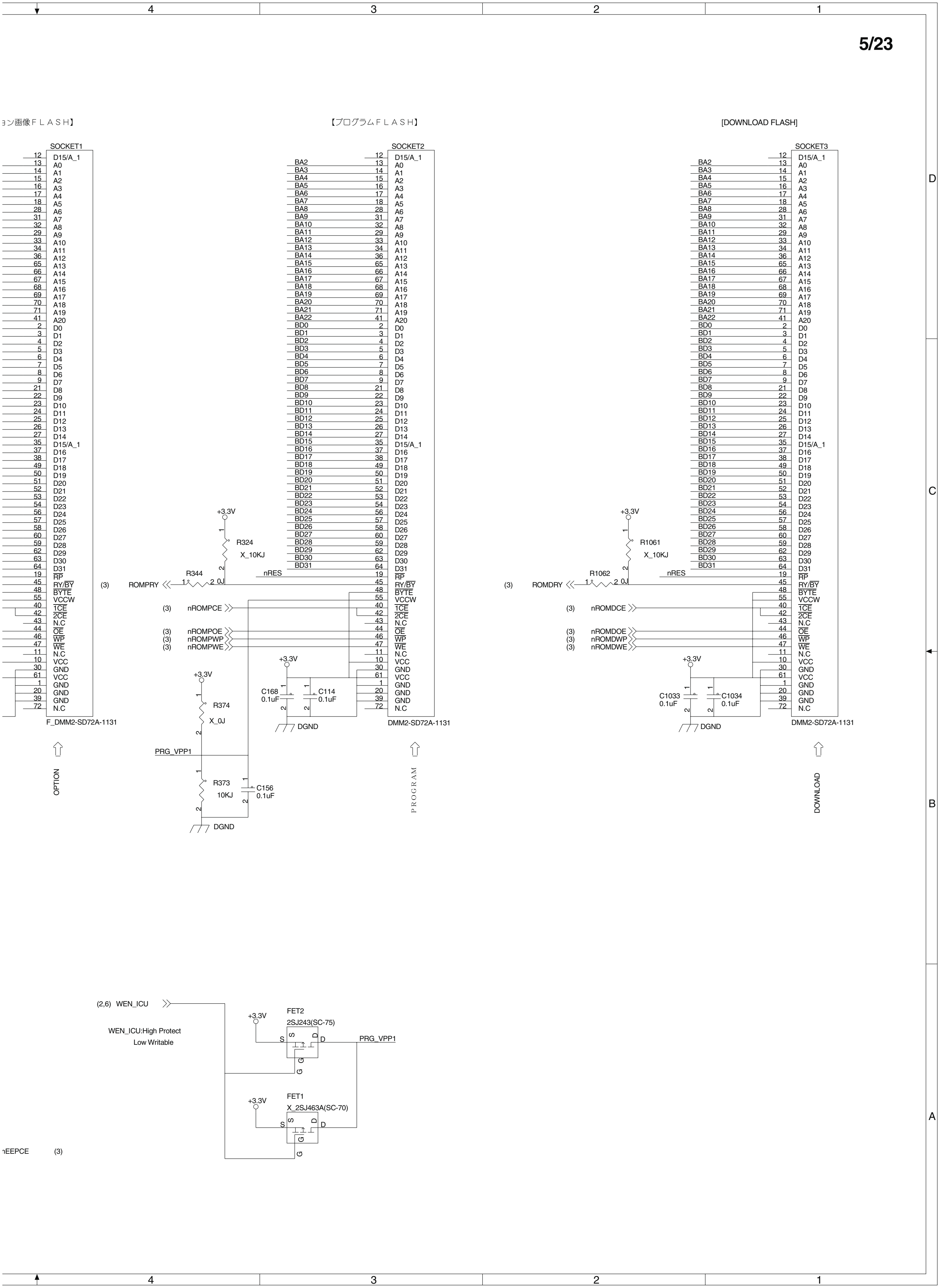
(2,3) D[31:0]
BD[31:0] (5,11,13)
IC59
IC57
IC60
IC61
74LCX245
A1 A2 A3 A4 A5 A6 A7 A8
B1 B2 B3 B4 B5 B6 B7 B8
G
DIR
VCC
GND
D0 D1 D2 D3 D4 D5 D6 D7
D8 D9 D10 D11 D12 D13 D14 D15
D16 D17 D18 D19 D20 D21 D22 D23
D24 D25 D26 D27 D28 D29 D30 D31
BR143 47Jx4
BR147 47Jx4
BR118 47Jx4
BR125 47Jx4
BR153 47Jx4
BR157 47Jx4
BR161 47Jx4
BR165 47Jx4
BD0 BD1 BD2 BD3 BD4 BD5 BD6 BD7
BD8 BD9 BD10 BD11 BD12 BD13 BD14 BD15
BD16 BD17 BD18 BD19 BD20 BD21 BD22 BD23
BD24 BD25 BD26 BD27 BD28 BD29 BD30 BD31
C278 0.1uF
L23 X_BLM15(1005)
L24 BLM18(1608)
C248 0.1uF
L19 X_BLM15(1005)
L20 BLM18(1608)
C298 0.1uF
L25 X_BLM15(1005)
L26 BLM18(1608)
C310 0.1uF
L28 X_BLM15(1005)
L29 BLM18(1608)
+3.3V
DGND
(3) nCBUS_OE
(3) CBUS_DIR
BR142 10KJx4
BR146 10KJx4
BR117 10KJx4
BR124 10KJx4
BR152 10KJx4
BR156 10KJx4
BR160 10KJx4
BR164 10KJx4
BD[15:0] (5,11,13)
(2,3) A[25:0]
IC75
IC76
IC74
74LCX244
A0 A1 A2 A3 A4 A5 A6 A7
A8 A9 A10 A11 A12 A13 A14 A15
A16 A17 A18 A19 A20 A21 A22 A23
1A1 1A2 1A3 1A4 2A1 2A2 2A3 2A4
1Y1 1Y2 1Y3 1Y4 2Y1 2Y2 2Y3 2Y4
1G
2G
IC58
B5D[7:0]
(5)
BR133 47Jx4
BR138 47Jx4
B5D0 B5D1 B5D2 B5D3 B5D4 B5D5 B5D6 B5D7
(3) nCBUS5_OE
(3) CBUS5_DIR
C257 0.1uF
L21 X_BLM15(1005)
L22 BLM18(1608)
+3.3V +5V
R583 X_0J
R571 0J
BR132 10KJx4
BR137 10KJx4
BR134 X_10Jx4
BR139 X_10Jx4
8 7 6 5
D C B A



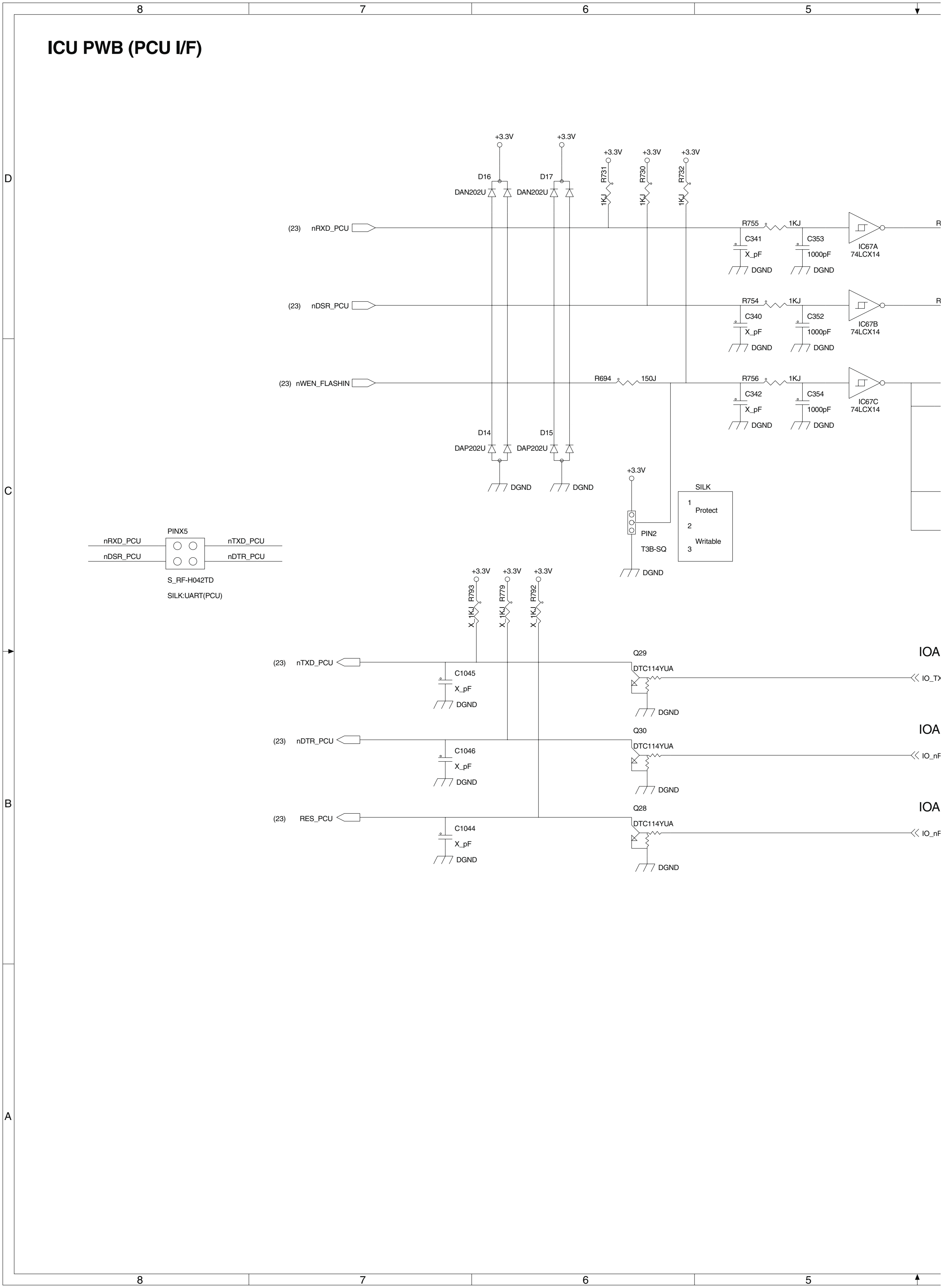
4
3
2
1
D
C
B
A
BA[22:1] (5,11,13)
BA[8:1] (5,11,13)
BA1
BA2
BA3
BA4
BA5
BA6
BA7
BA8
BR183 47Jx4
BR174 47Jx4
1Y1
1Y2
1Y3
1Y4
2Y1
2Y2
2Y3
2Y4
VCC
GND
C356 0.1uF
L39 X_BLM15(1005)
L36 BLM18(1608)
+3.3V
DGND
LCX244
BR184 47Jx4
BR175 47Jx4
BA9
BA10
BA11
BA12
BA13
BA14
BA15
C357 0.1uF
L40 X_BLM15(1005)
L37 BLM18(1608)
BR182 47Jx4
BR173 47Jx4
BA16
BA17
BA18
BA19
BA20
BA21
BA22
C355 0.1uF
L38 X_BLM15(1005)
L35 BLM18(1608)
R460 0J
R461 0J
IC47
(2,3) nBS
(2,3) RDnWR
1A1
1A2
1A3
1A4
2A1
2A2
2A3
2A4
1G
2G
R490 X_47J
R491 X_47J
SH_BS (11)
SH_RDWR (11)
C247 X_0.1uF
X_74LCX244
R457 0J
R458 0J
IC46A X_74LCX08
(3) nWAIT_IO
(11) nWAIT_ICUASIC
R459 X_47J
nWAIT (2)
IC46B X_74LCX08
IC46C X_74LCX08
IC46D X_74LCX08
74LCX08
C246 X_0.1uF

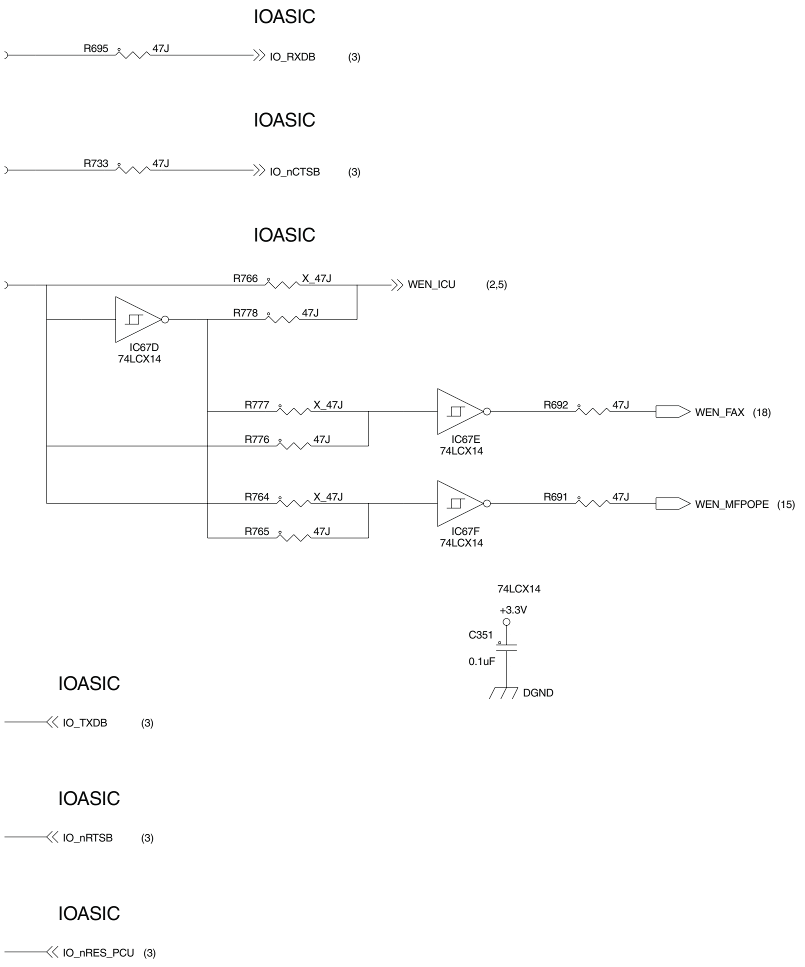
ICU PWB (MEM)


【標準画像ＦＬＡＳＨ】
【オプション画像ＦＬＡＳ
【バックアップＳＲＡＭ】
【ＥＥＰＲＯＭ】
(4,11,13) BA[22:1]
(4,11,13) BD[31:0]
IC30
F_LH28F800BJE-PTTL90
IC42
F_LH28F800BJE-PTTL90
A0
A1
A2
A3
A4
A5
A6
A7
A8
A9
A10
A11
A12
A13
A14
A15
A16
A17
A18
NC/A19
NC/A20
DQ0
DQ1
DQ2
DQ3
DQ4
DQ5
DQ6
DQ7
DQ8
DQ9
DQ10
DQ11
DQ12
DQ13
DQ14
DQ15/A-1
RY/BY
BYTE
CE
OE
WE
WP
RP
VPP
VCC
GND
BA1
BA2
BA3
BA4
BA5
BA6
BA7
BA8
BA9
BA10
BA11
BA12
BA13
BA14
BA15
BA16
BA17
BA18
BA19
BA20
BA21
BA22
BD0
BD1
BD2
BD3
BD4
BD5
BD6
BD7
BD8
BD9
BD10
BD11
BD12
BD13
BD14
BD15
BD16
BD17
BD18
BD19
BD20
BD21
BD22
BD23
BD24
BD25
BD26
BD27
BD28
BD29
BD30
BD31
+3.3V
R211
X_10KJ
ROMNRY
(3)
C92
F_0.1uF
C135
F_0.1uF
C165
F_0.1uF
C216
F_0.1uF
DGND
(3) nROMNCE
(3) nROMNOE
(3) nROMNWE
(3) nROMNWP
(3,7) nRES
SO
R323
X_10KJ
R343
0J
(3) ROMORY
nRES
(3) nROMOCE
(3) nROMOOE
(3) nROMOWP
(3) nROMOWE
C167
0.1uF
C113
0.1uF
F_D
OPTION
C218
47uF/10V
C94
47uF/10V
C219
47uF/10V
C83
47uF/10V
IC65
F_UT62L1024LC-70LL
IC64
F_UT62L1024LC-70LL
I/O0
I/O1
I/O2
I/O3
I/O4
I/O5
I/O6
I/O7
NC
CE1
CE2
VSS
BT3.3V
C280
F_0.1uF
C279
F_0.1uF
(3) nRAMLWE
(3) nRAMCE
(7) nRAMRES
(3) nRAMOE
(3) nRAMUWE
(4) B5D[7:0]
IC50
28PINSOCKET(HN58C256)
B5D0
B5D1
B5D2
B5D3
B5D4
B5D5
B5D6
B5D7
D0
D1
D2
D3
D4
D5
D6
D7
NC/A13
NC/A14
CS
+5V
(3) nEEPWE
(3) nEEPOE
R559
X_0J
R558
0J
C258
0.1uF
nEEPCE

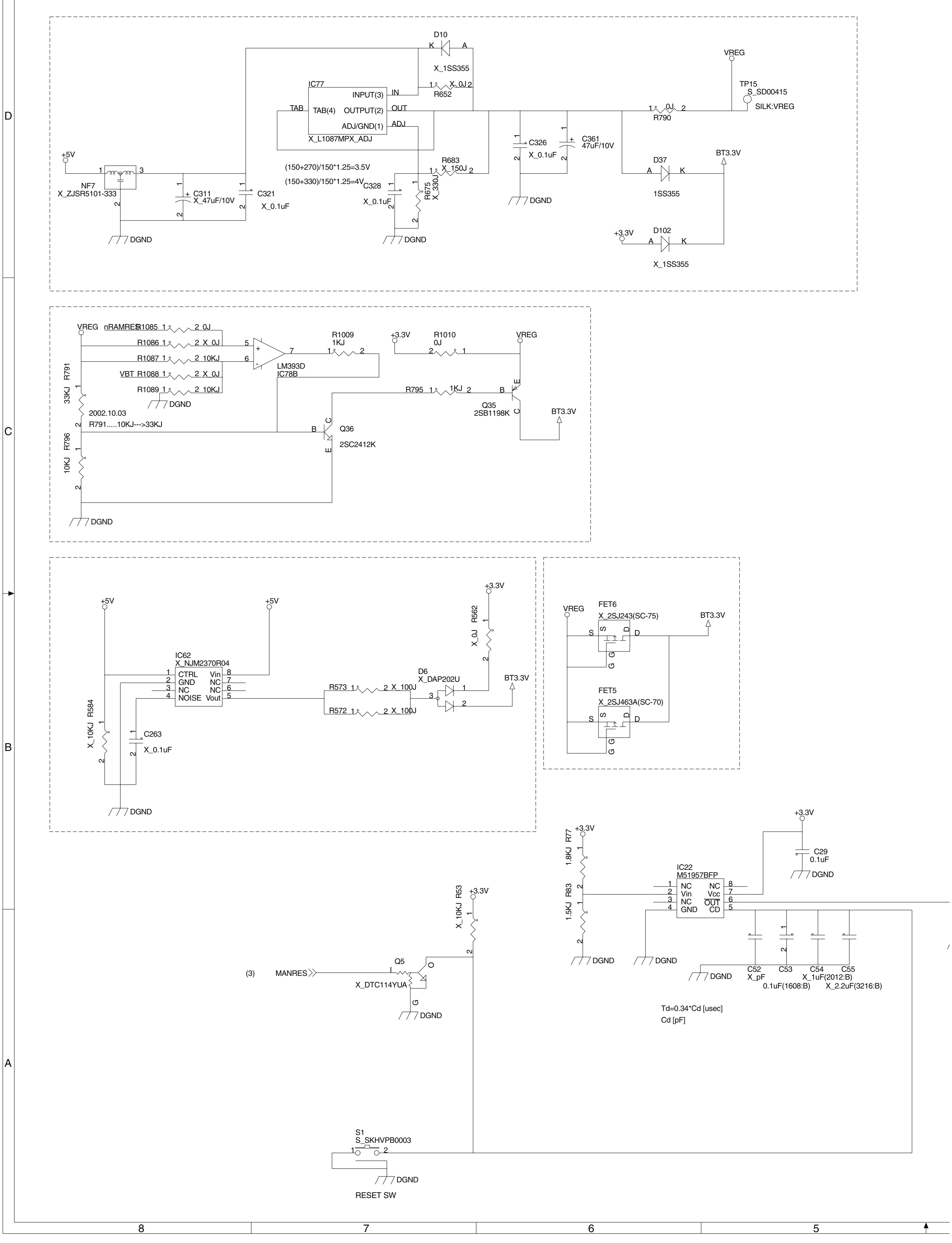

ョン画像ＦＬＡＳＨ】
【プログラムＦＬＡＳＨ】
[DOWNLOAD FLASH]
SOCKET1
SOCKET2
SOCKET3
D15/A_1
A0
A1
A2
A3
A4
A5
A6
A7
A8
A9
A10
A11
A12
A13
A14
A15
A16
A17
A18
A19
A20
D0 … D31
RP
RY/BY
BYTE
VCCW
1CE
2CE
N.C
OE
WP
WE
VCC
GND
BA2 … BA22
BD0 … BD31
F_DMM2-SD72A-1131
DMM2-SD72A-1131
OPTION
PROGRAM
DOWNLOAD
+3.3V
R324
X_10KJ
R344
0J
nRES
(3) ROMPRY
(3) nROMPCE
(3) nROMPOE
(3) nROMPWP
(3) nROMPWE
R1061
X_10KJ
R1062
0J
(3) ROMDRY
(3) nROMDCE
(3) nROMDOE
(3) nROMDWP
(3) nROMDWE
C168
0.1uF
C114
0.1uF
C1033
0.1uF
C1034
0.1uF
DGND
R374
X_0J
PRG_VPP1
R373
10KJ
C156
0.1uF
(2,6) WEN_ICU
WEN_ICU:High Protect
Low Writable
FET2
2SJ243(SC-75)
FET1
X_2SJ463A(SC-70)
S
D
G
nEEPCE (3)
4
3
2
1
D
C
B
A

ICU PWB (PCU I/F)

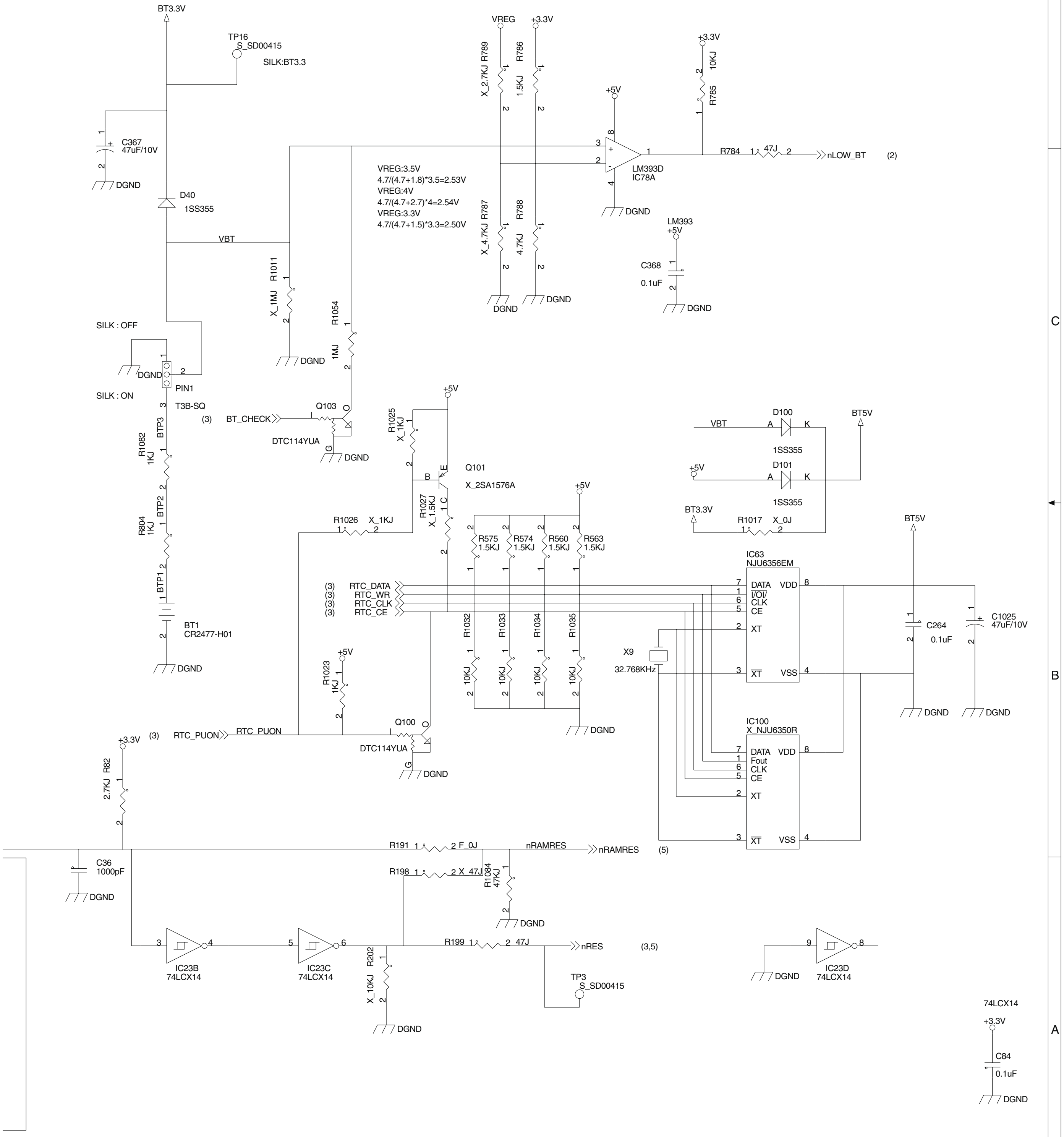

8
7
6
5
D
C
B
A
+3.3V
D16
DAN202U
D17
DAN202U
R731
1KJ
R730
1KJ
R732
1KJ
(23) nRXD_PCU
R755
1KJ
C341
X_pF
C353
1000pF
DGND
IC67A
74LCX14
(23) nDSR_PCU
R754
1KJ
C340
X_pF
C352
1000pF
IC67B
74LCX14
(23) nWEN_FLASHIN
R694
150J
R756
1KJ
C342
X_pF
C354
1000pF
IC67C
74LCX14
D14
DAP202U
D15
DAP202U
SILK
1
Protect
2
Writable
3
PIN2
T3B-SQ
PINX5
nRXD_PCU
nDSR_PCU
nTXD_PCU
nDTR_PCU
S_RF-H042TD
SILK:UART(PCU)
R793
X_1KJ
R779
X_1KJ
R792
X_1KJ
(23) nTXD_PCU
C1045
X_pF
Q29
DTC114YUA
IOA
IO_TX
(23) nDTR_PCU
C1046
X_pF
Q30
DTC114YUA
IO_nF
(23) RES_PCU
C1044
X_pF
Q28
DTC114YUA


IOASIC
R695
47J
IO_RXDB
(3)
IOASIC
R733
47J
IO_nCTSB
(3)
IOASIC
R766
X_47J
WEN_ICU
(2,5)
R778
47J
IC67D
74LCX14
R777
X_47J
R776
47J
IC67E
74LCX14
R692
47J
WEN_FAX
(18)
R764
X_47J
R765
47J
IC67F
74LCX14
R691
47J
WEN_MFPOPE
(15)
74LCX14
+3.3V
C351
0.1uF
DGND
IOASIC
IO_TXDB
(3)
IOASIC
IO_nRTSB
(3)
IOASIC
IO_nRES_PCU
(3)

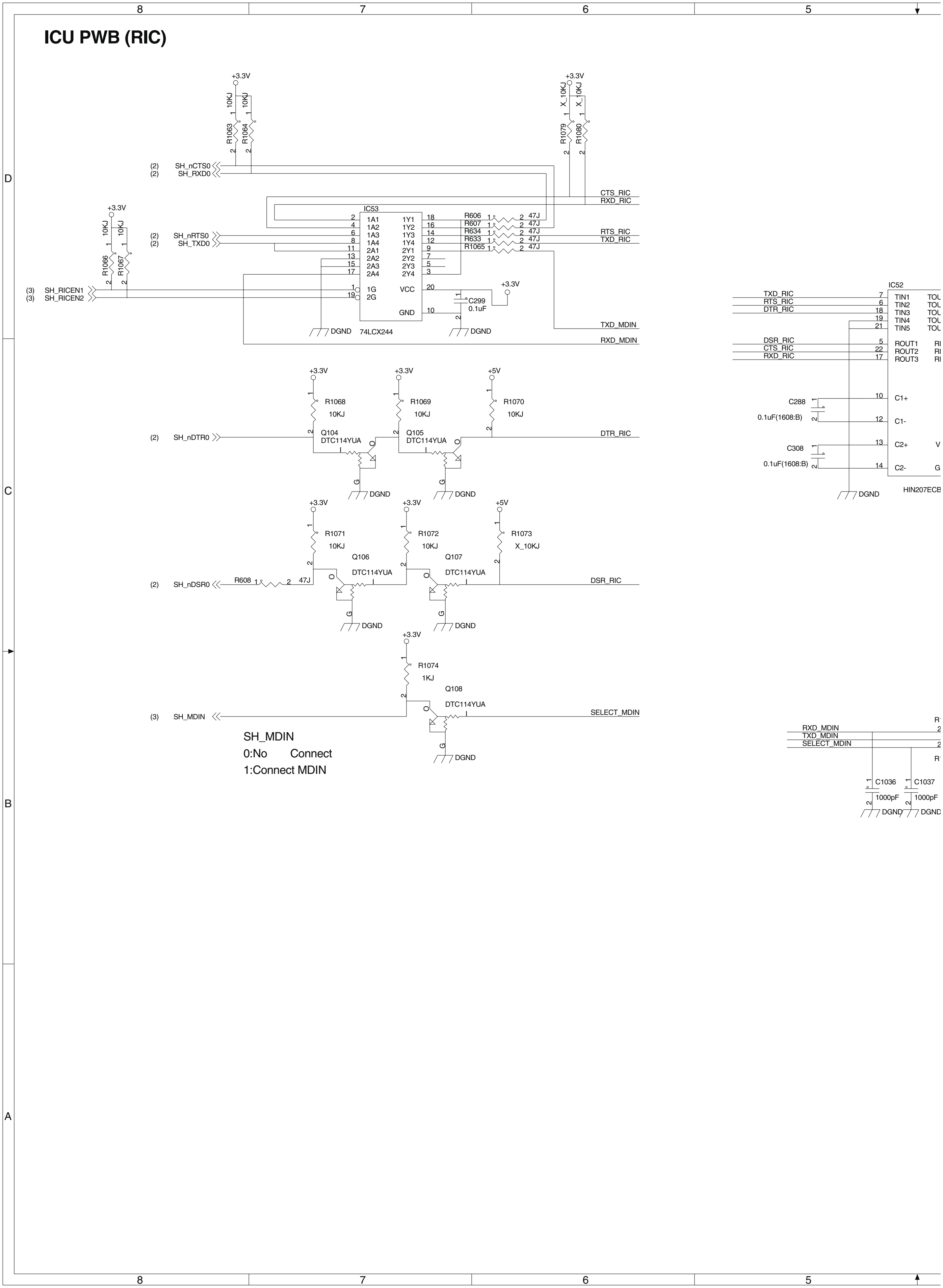
ICU PWB (BAT & RESET & RTC)



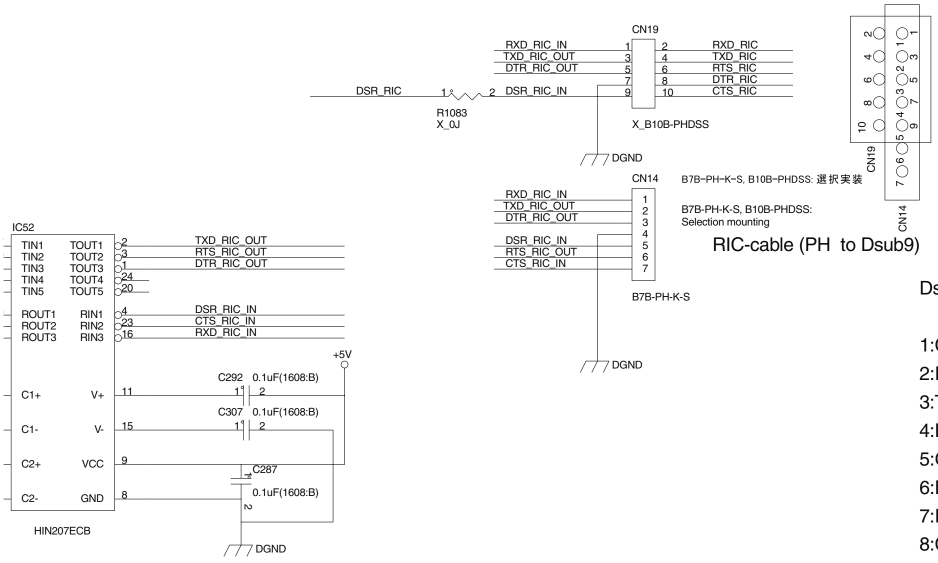
8
7
6
5
D
C
B
A
D10
K
A
X_1SS355
VREG
TP15
S_SD00415
SILK:VREG
IC77
INPUT(3)
IN
TAB
TAB(4)
OUTPUT(2)
OUT
ADJ/GND(1)
ADJ
X_L1087MPX_ADJ
R652
X_0J
R790
0J
C326
X_0.1uF
C361
47uF/10V
BT3.3V
D37
1SS355
R683
X_150J
(150+270)/150*1.25=3.5V
(150+330)/150*1.25=4V
C328
X_0.1uF
R675
X_330J
+5V
NF7
X_ZJSR5101-333
C311
X_47uF/10V
C321
X_0.1uF
DGND
+3.3V
D102
X_1SS355
VREG
nRAMRES
R1085
0J
R1086
X_0J
R1087
10KJ
VBT
R1088
X_0J
R1089
10KJ
LM393D
IC78B
R1009
1KJ
R1010
0J
R795
1KJ
Q35
2SB1198K
R791
33KJ
2002.10.03
R791.....10KJ--->33KJ
R796
10KJ
Q36
2SC2412K
B
C
E
IC62
X_NJM2370R04
CTRL
GND
NC
NOISE
Vin
NC
NC
Vout
R584
X_10KJ
C263
X_0.1uF
R562
X_0J
D6
X_DAP202U
R573
X_100J
R572
X_100J
FET6
X_2SJ243(SC-75)
FET5
X_2SJ463A(SC-70)
S
D
G
R77
1.8KJ
R83
1.5KJ
IC22
M51957BFP
NC
Vin
NC
GND
NC
Vcc
OUT
CD
C29
0.1uF
C52
X_pF
C53
0.1uF(1608:B)
C54
X_1uF(2012:B)
C55
X_2.2uF(3216:B)
Td=0.34*Cd [usec]
Cd [pF]
R53
X_10KJ
(3)
MANRES
Q5
X_DTC114YUA
I
O
G
S1
S_SKHVPB0003
RESET SW


BT3.3V
TP16
S_SD00415
SILK:BT3.3
C367
47uF/10V
DGND
D40
1SS355
VBT
X_1MJ R1011
R1054
1MJ
SILK : OFF
SILK : ON
PIN1
T3B-SQ
BTP3
R1082
1KJ
BTP2
R804
1KJ
BTP1
BT1
CR2477-H01
BT_CHECK
(3)
Q103
DTC114YUA
VREG
+3.3V
X_2.7KJ R789
1.5KJ R786
X_4.7KJ R787
4.7KJ R788
VREG:3.5V
4.7/(4.7+1.8)*3.5=2.53V
VREG:4V
4.7/(4.7+2.7)*4=2.54V
VREG:3.3V
4.7/(4.7+1.5)*3.3=2.50V
+5V
LM393D
IC78A
10KJ
R785
R784
47J
nLOW_BT
(2)
LM393
C368
0.1uF
R1025
X_1KJ
Q101
X_2SA1576A
R1026
X_1KJ
R1027
X_1.5KJ
R575 1.5KJ
R574 1.5KJ
R560 1.5KJ
R563 1.5KJ
RTC_DATA
RTC_WR
RTC_CLK
RTC_CE
R1032 10KJ
R1033 10KJ
R1034 10KJ
R1035 10KJ
VBT
D100
1SS355
D101
1SS355
BT5V
BT3.3V
R1017
X_0J
IC63
NJU6356EM
DATA
I/O
CLK
CE
XT
XT
VDD
VSS
X9
32.768KHz
IC100
X_NJU6350R
DATA
Fout
CLK
CE
XT
XT
VDD
VSS
C264
0.1uF
C1025
47uF/10V
R1023
1KJ
RTC_PUON
Q100
DTC114YUA
R82
2.7KJ
C36
1000pF
R191
F_0J
nRAMRES
(5)
R198
X_47J
R1084
47KJ
IC23B
74LCX14
IC23C
74LCX14
R202
X_10KJ
R199
47J
nRES
(3,5)
TP3
S_SD00415
IC23D
74LCX14
74LCX14
C84
0.1uF
DGND

ICU PWB (RIC)

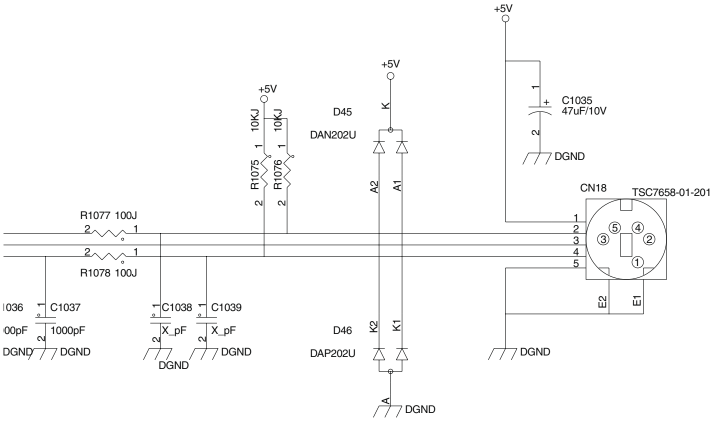


8
7
6
5
D
C
B
A
+3.3V
R1063
10KJ
R1064
10KJ
R1079
X_10KJ
R1080
X_10KJ
(2) SH_nCTS0
(2) SH_RXD0
CTS_RIC
RXD_RIC
IC53
1A1
1A2
1A3
1A4
2A1
2A2
2A3
2A4
1Y1
1Y2
1Y3
1Y4
2Y1
2Y2
2Y3
2Y4
1G
2G
VCC
GND
74LCX244
R606
R607
R634
R633
R1065
47J
RTS_RIC
TXD_RIC
(2) SH_nRTS0
(2) SH_TXD0
R1066
10KJ
R1067
10KJ
(3) SH_RICEN1
(3) SH_RICEN2
C299
0.1uF
DGND
TXD_MDIN
RXD_MDIN
IC52
TXD_RIC
RTS_RIC
DTR_RIC
TIN1
TIN2
TIN3
TIN4
TIN5
DSR_RIC
CTS_RIC
RXD_RIC
ROUT1
ROUT2
ROUT3
C288
0.1uF(1608:B)
C1+
C1-
C308
0.1uF(1608:B)
C2+
C2-
HIN207ECB
+5V
R1068
10KJ
R1069
10KJ
R1070
10KJ
(2) SH_nDTR0
Q104
DTC114YUA
Q105
DTC114YUA
DTR_RIC
R1071
10KJ
R1072
10KJ
R1073
X_10KJ
Q106
DTC114YUA
Q107
DTC114YUA
(2) SH_nDSR0
R608
47J
DSR_RIC
R1074
1KJ
Q108
DTC114YUA
(3) SH_MDIN
SELECT_MDIN
SH_MDIN
0:No Connect
1:Connect MDIN
RXD_MDIN
TXD_MDIN
SELECT_MDIN
C1036
1000pF
C1037
1000pF


CN19
RXD_RIC_IN
TXD_RIC_OUT
DTR_RIC_OUT
DSR_RIC_IN
RXD_RIC
TXD_RIC
RTS_RIC
DTR_RIC
CTS_RIC
DSR_RIC
R1083
X_0J
X_B10B-PHDSS
DGND
CN14
B7B−PH−K−S, B10B−PHDSS: 選択実装
B7B-PH-K-S, B10B-PHDSS:
Selection mounting
RTS_RIC_OUT
CTS_RIC_IN
B7B-PH-K-S
RIC-cable (PH to Dsub9)
IC52
TIN1
TIN2
TIN3
TIN4
TIN5
TOUT1
TOUT2
TOUT3
TOUT4
TOUT5
ROUT1
ROUT2
ROUT3
RIN1
RIN2
RIN3
C1+
C1-
C2+
C2-
V+
V-
VCC
GND
HIN207ECB
RTS_RIC_OUT
+5V
C292 0.1uF(1608:B)
C307 0.1uF(1608:B)
C287
0.1uF(1608:B)
DGND

Dsub9

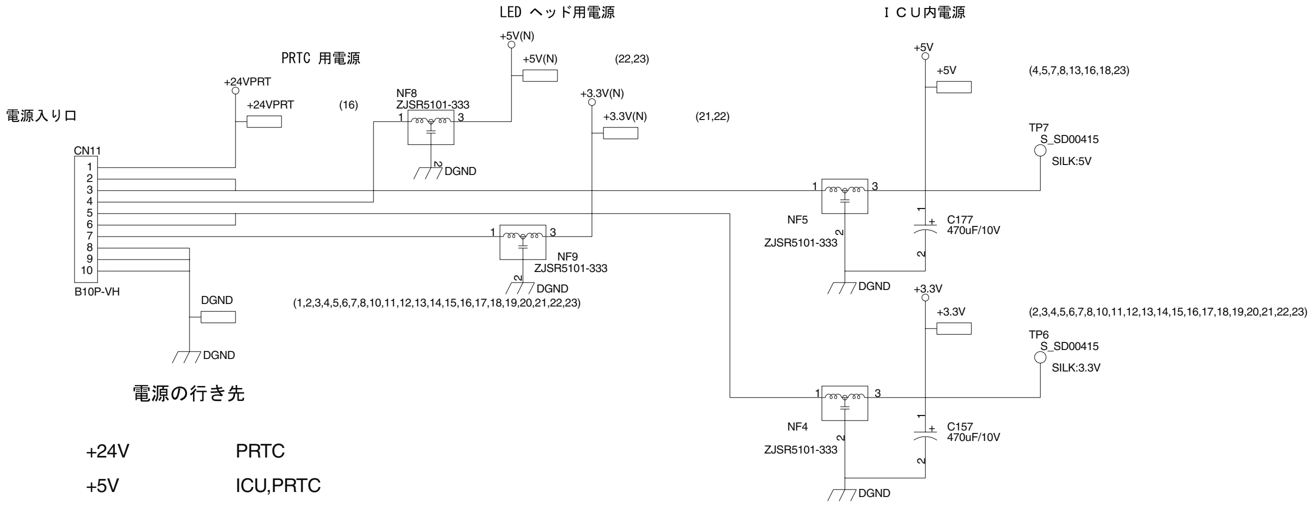
1:CD
2:RXD
3:TXD
4:DTR
5:GND
6:DSR
7:RTS
8:CTS
9:RI


+5V
C1035
47uF/10V
DGND
D45
DAN202U
R1075
R1076
10KJ
10KJ
A2
A1
K
CN18
TSC7658-01-201
E2
E1
R1077 100J
R1078 100J
C1036
1000pF
C1037
1000pF
C1038
X_pF
C1039
X_pF
DGND
D46
DAP202U
K2
K1
A
DGND

MinDin

1:+5V
2:RXD
3:TXD
4:GND(plugin detect)
5:GND

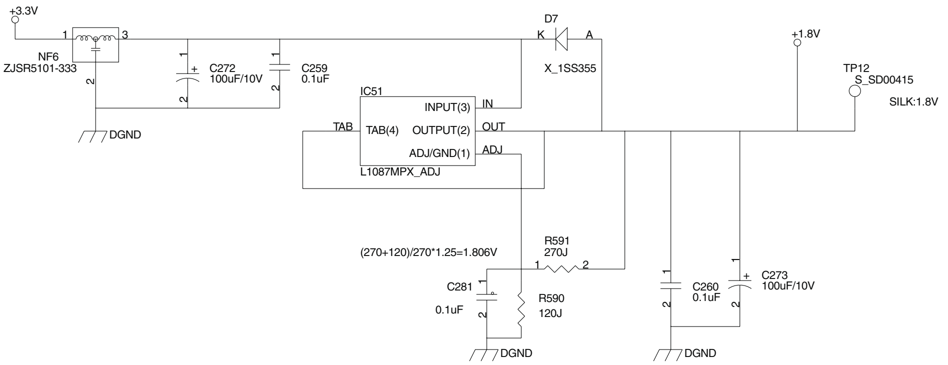
ICU PWB (POWER)


LED ヘッド用電源
ＩＣＵ内電源
PRTC 用電源
電源入り口
+24VPRT
+24VPRT
(16)
+5V(N)
+5V(N)
(22,23)
+3.3V(N)
+3.3V(N)
(21,22)
NF8
ZJSR5101-333
1
3
2
DGND
CN11
1
2
3
4
5
6
7
8
9
10
B10P-VH
DGND
DGND
NF9
ZJSR5101-333
DGND
(1,2,3,4,5,6,7,8,10,11,12,13,14,15,16,17,18,19,20,21,22,23)
+5V
+5V
(4,5,7,8,13,16,18,23)
TP7
S_SD00415
SILK:5V
NF5
ZJSR5101-333
DGND
C177
470uF/10V
+3.3V
+3.3V
(2,3,4,5,6,7,8,10,11,12,13,14,15,16,17,18,19,20,21,22,23)
TP6
S_SD00415
SILK:3.3V
NF4
ZJSR5101-333
C157
470uF/10V
DGND

電源の行き先

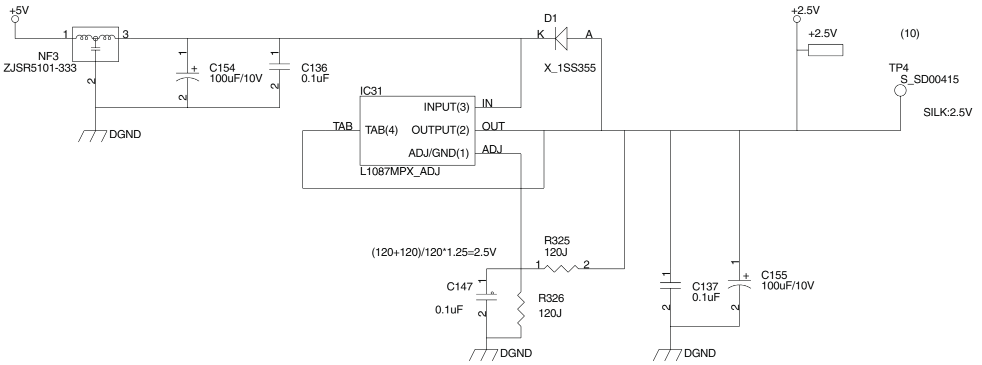
+24V	PRTC
+5V	ICU,PRTC
+5V	ICU,PRTC
+5VN	LED-HEAD
+3.3V	ICU,PRTC
+3.3V	ICU,PRTC
+3.3VN	LED-HEAD
GND	
GND	
GND	

SH-3

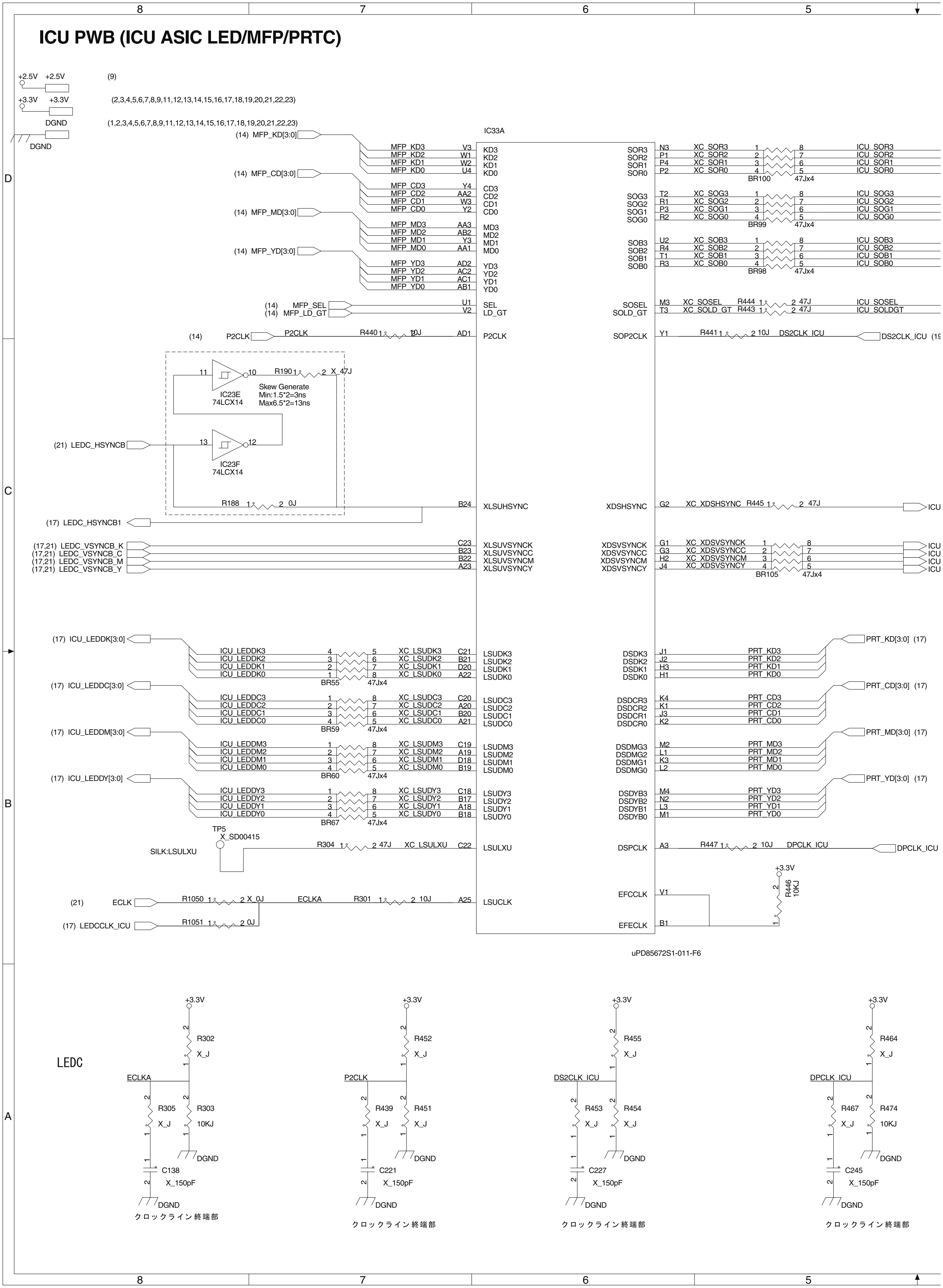

+3.3V
1
3
NF6
ZJSR5101-333
2
1
2
C272
100uF/10V
1
2
C259
0.1uF
DGND
D7
K
A
X_1SS355
+1.8V
TP12
S_SD00415
SILK:1.8V
IC51
INPUT(3)
IN
TAB
TAB(4)
OUTPUT(2)
OUT
ADJ/GND(1)
ADJ
L1087MPX_ADJ
(270+120)/270*1.25=1.806V
R591
270J
1
2
C281
0.1uF
R590
120J
DGND
C260
0.1uF
C273
100uF/10V
DGND

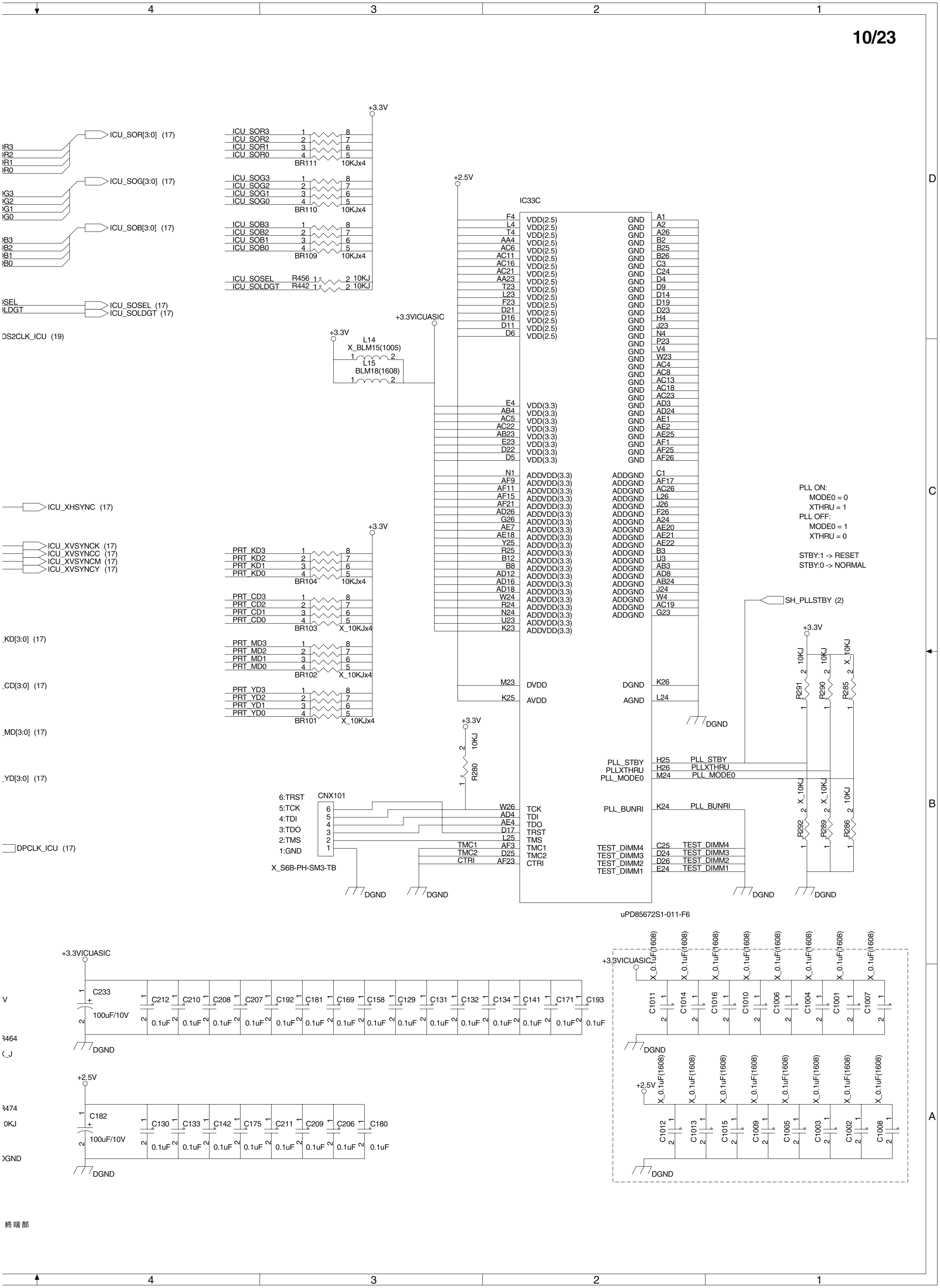
,19,20,21,22,23)

ICUASIC

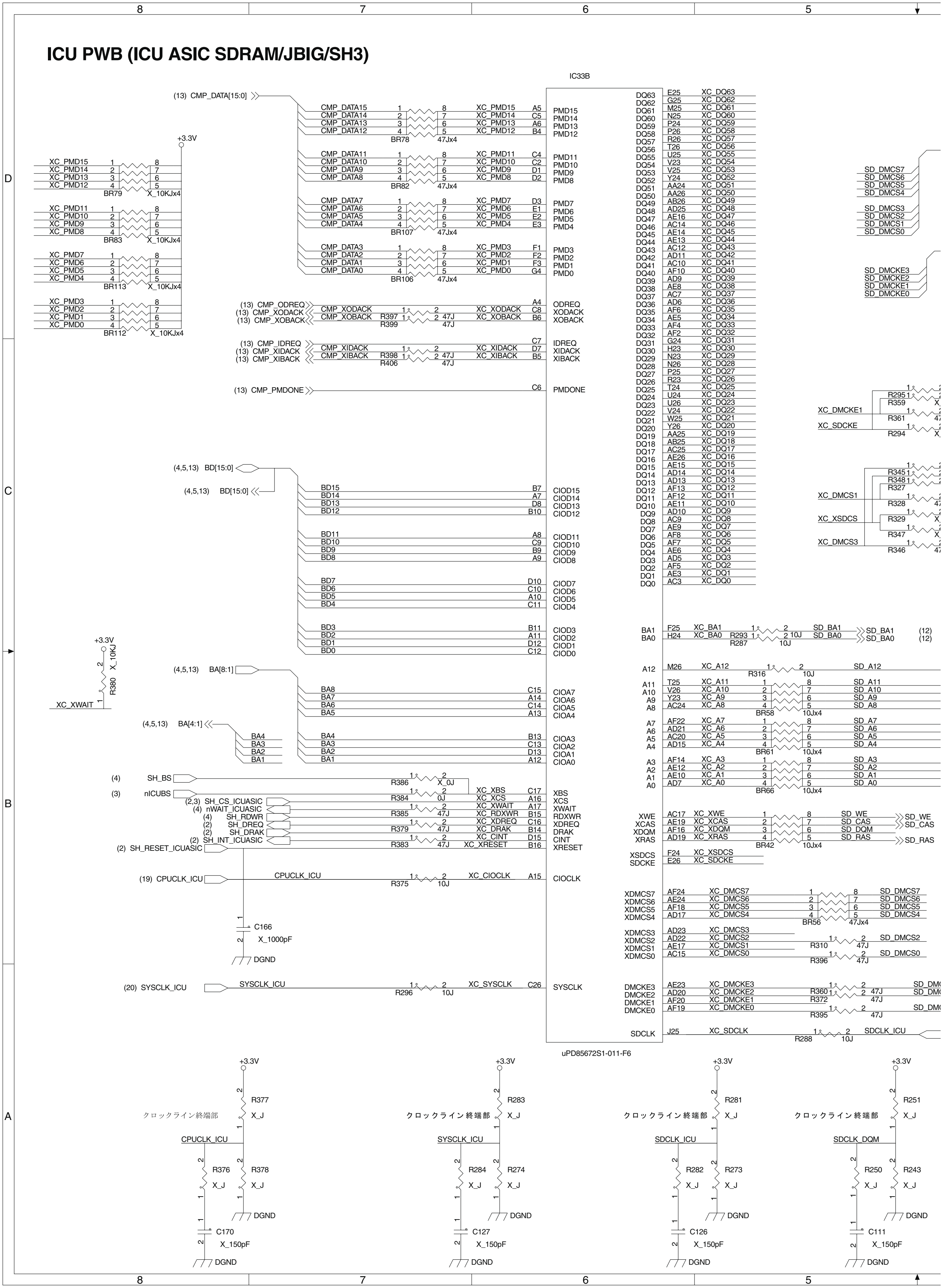

+5V
1
3
NF3
ZJSR5101-333
2
1
2
C154
100uF/10V
1
2
C136
0.1uF
DGND
D1
K
A
X_1SS355
+2.5V
+2.5V
(10)
TP4
S_SD00415
SILK:2.5V
IC31
INPUT(3)
IN
TAB
TAB(4)
OUTPUT(2)
OUT
ADJ/GND(1)
ADJ
L1087MPX_ADJ
(120+120)/120*1.25=2.5V
R325
120J
1
2
C147
0.1uF
R326
120J
DGND
C137
0.1uF
C155
100uF/10V
DGND

ICU PWB (ICU ASIC LED/MFP/PRTC)


+2.5V
+3.3V
DGND
(9)
(2,3,4,5,6,7,8,9,11,12,13,14,15,16,17,18,19,20,21,22,23)
(1,2,3,4,5,6,7,8,9,11,12,13,14,15,16,17,18,19,20,21,22,23)
IC33A
(14) MFP_KD[3:0]
(14) MFP_CD[3:0]
(14) MFP_MD[3:0]
(14) MFP_YD[3:0]
(14) MFP_SEL
(14) MFP_LD_GT
(14) P2CLK
R440 10J
AD1 P2CLK
SOR3 SOR2 SOR1 SOR0
XC_SOR3 XC_SOR2 XC_SOR1 XC_SOR0
BR100 47Jx4
ICU_SOR3 ICU_SOR2 ICU_SOR1 ICU_SOR0
SOG3 SOG2 SOG1 SOG0
BR99 47Jx4
ICU_SOG3 ICU_SOG2 ICU_SOG1 ICU_SOG0
SOB3 SOB2 SOB1 SOB0
BR98 47Jx4
ICU_SOB3 ICU_SOB2 ICU_SOB1 ICU_SOB0
SOSEL SOLD_GT
XC_SOSEL XC_SOLD_GT
R444 47J
R443 47J
ICU_SOSEL ICU_SOLDGT
SOP2CLK
R441 10J
DS2CLK_ICU
IC23E 74LCX14
IC23F 74LCX14
R190 X_47J
Skew Generate
Min:1.5*2=3ns
Max6.5*2=13ns
(21) LEDC_HSYNCB
R188 0J
(17) LEDC_HSYNCB1
B24 XLSUHSYNC
XDSHSYNC
XC_XDSHSYNC R445 47J
ICU
(17,21) LEDC_VSYNCB_K
(17,21) LEDC_VSYNCB_C
(17,21) LEDC_VSYNCB_M
(17,21) LEDC_VSYNCB_Y
XLSUVSYNCK XLSUVSYNCC XLSUVSYNCM XLSUVSYNCY
XDSVSYNCK XDSVSYNCC XDSVSYNCM XDSVSYNCY
BR105 47Jx4
(17) ICU_LEDDK[3:0]
BR55 47Jx4
(17) ICU_LEDDC[3:0]
BR59 47Jx4
(17) ICU_LEDDM[3:0]
BR60 47Jx4
(17) ICU_LEDDY[3:0]
BR67 47Jx4
LSUDK3 LSUDK2 LSUDK1 LSUDK0
LSUDC3 LSUDC2 LSUDC1 LSUDC0
LSUDM3 LSUDM2 LSUDM1 LSUDM0
LSUDY3 LSUDY2 LSUDY1 LSUDY0
DSDK3 DSDK2 DSDK1 DSDK0
DSDCR3 DSDCR2 DSDCR1 DSDCR0
DSDMG3 DSDMG2 DSDMG1 DSDMG0
DSDYB3 DSDYB2 DSDYB1 DSDYB0
PRT_KD[3:0] (17)
PRT_CD[3:0] (17)
PRT_MD[3:0] (17)
PRT_YD[3:0] (17)
TP5
X_SD00415
SILK:LSULXU
R304 47J XC_LSULXU
C22 LSULXU
DSPCLK
R447 10J DPCLK_ICU
+3.3V
R446 10KJ
EFCCLK
EFECLK
(21) ECLK
R1050 X_0J
ECLKA
R301 10J
A25 LSUCLK
(17) LEDCCLK_ICU
R1051 0J
uPD85672S1-011-F6
LEDC
R302 X_J
R305 X_J
R303 10KJ
C138 X_150pF
R452 X_J
R439 X_J
R451 X_J
C221 X_150pF
DS2CLK_ICU
R455 X_J
R453 X_J
R454 X_J
C227 X_150pF
DPCLK_ICU
R464 X_J
R467 X_J
R474 10KJ
C245 X_150pF
クロックライン終端部


4
3
2
1
D
C
B
A
+3.3V
ICU_SOR[3:0] (17)
ICU_SOR3
ICU_SOR2
ICU_SOR1
ICU_SOR0
BR111
10KJx4
ICU_SOG[3:0] (17)
ICU_SOG3
ICU_SOG2
ICU_SOG1
ICU_SOG0
BR110
10KJx4
ICU_SOB[3:0] (17)
ICU_SOB3
ICU_SOB2
ICU_SOB1
ICU_SOB0
BR109
10KJx4
ICU_SOSEL
ICU_SOLDGT
R456
R442
10KJ
ICU_SOSEL (17)
ICU_SOLDGT (17)
DS2CLK_ICU (19)
+2.5V
IC33C
+3.3VICUASIC
L14
X_BLM15(1005)
L15
BLM18(1608)
F4 L4 T4 AA4 AC6 AC11 AC16 AC21 AA23 T23 L23 F23 D21 D16 D11 D6
VDD(2.5)
E4 AB4 AC5 AC22 AB23 E23 D22 D5
VDD(3.3)
N1 AF9 AF11 AF15 AF21 AD26 G26 AE7 AE18 Y25 R25 B12 B8 AD12 AD16 AD18 W24 R24 N24 U23 K23
ADDVDD(3.3)
GND
A1 A2 A26 B2 B25 B26 C3 C24 D4 D9 D14 D19 D23 H4 J23 N4 P23 V4 W23 AC4 AC8 AC13 AC18 AC23 AD3 AD24 AE1 AE2 AE25 AF1 AF25 AF26
ADDGND
C1 AF17 AC26 L26 J26 F26 A24 AE20 AE21 AE22 B3 U3 AB3 AD8 AB24 J24 W4 AC19 G23
M23 DVDD
K25 AVDD
DGND K26
AGND L24
DGND
ICU_XHSYNC (17)
ICU_XVSYNCK (17)
ICU_XVSYNCC (17)
ICU_XVSYNCM (17)
ICU_XVSYNCY (17)
PRT_KD3 PRT_KD2 PRT_KD1 PRT_KD0
BR104
10KJx4
PRT_CD3 PRT_CD2 PRT_CD1 PRT_CD0
BR103
X_10KJx4
PRT_MD3 PRT_MD2 PRT_MD1 PRT_MD0
BR102
X_10KJx4
PRT_YD3 PRT_YD2 PRT_YD1 PRT_YD0
BR101
X_10KJx4
_KD[3:0] (17)
_CD[3:0] (17)
_MD[3:0] (17)
_YD[3:0] (17)
PLL ON:
MODE0 = 0
XTHRU = 1
PLL OFF:
MODE0 = 1
XTHRU = 0
STBY:1 -> RESET
STBY:0 -> NORMAL
SH_PLLSTBY (2)
R291 R290 R285
10KJ 10KJ X_10KJ
R280 10KJ
PLL_STBY H25
PLLXTHRU H26
PLL_MODE0 M24
PLL_BUNRI K24
R292 R289 R286
X_10KJ X_10KJ 10KJ
6:TRST
5:TCK
4:TDI
3:TDO
2:TMS
1:GND
CNX101
X_S6B-PH-SM3-TB
W26 TCK
AD4 TDI
AE4 TDO
D17 TRST
L25 TMS
TMC1 AF3 TMC1
TMC2 D25 TMC2
CTRI AF23 CTRI
TEST_DIMM4 C25
TEST_DIMM3 D24
TEST_DIMM2 D26
TEST_DIMM1 E24
DGND
uPD85672S1-011-F6
DPCLK_ICU (17)
+3.3VICUASIC
C233 100uF/10V
C212 C210 C208 C207 C192 C181 C169 C158 C129 C131 C132 C134 C141 C171 C193
0.1uF
R464
_J
+2.5V
C182 100uF/10V
C130 C133 C142 C175 C211 C209 C206 C180
0.1uF
R474
0KJ
DGND
+3.3VICUASIC
C1011 C1014 C1016 C1010 C1006 C1004 C1001 C1007
X_0.1uF(1608)
+2.5V
C1012 C1013 C1015 C1009 C1005 C1003 C1002 C1008
X_0.1uF(1608)
終端部

ICU PWB (ICU ASIC SDRAM/JBIG/SH3)


8
7
6
5
D
C
B
A
IC33B
uPD85672S1-011-F6
(13) CMP_DATA[15:0]
CMP_DATA15
CMP_DATA14
CMP_DATA13
CMP_DATA12
BR78
47Jx4
XC_PMD15 A5 PMD15
XC_PMD14 C5 PMD14
XC_PMD13 A6 PMD13
XC_PMD12 B4 PMD12
CMP_DATA11
CMP_DATA10
CMP_DATA9
CMP_DATA8
BR82
XC_PMD11 C4 PMD11
XC_PMD10 C2 PMD10
XC_PMD9 D1 PMD9
XC_PMD8 D2 PMD8
CMP_DATA7
CMP_DATA6
CMP_DATA5
CMP_DATA4
BR107
XC_PMD7 D3 PMD7
XC_PMD6 E1 PMD6
XC_PMD5 E2 PMD5
XC_PMD4 E3 PMD4
CMP_DATA3
CMP_DATA2
CMP_DATA1
CMP_DATA0
BR106
XC_PMD3 F1 PMD3
XC_PMD2 F2 PMD2
XC_PMD1 F3 PMD1
XC_PMD0 G4 PMD0
+3.3V
BR79 X_10KJx4
BR83 X_10KJx4
BR113 X_10KJx4
BR112 X_10KJx4
(13) CMP_ODREQ
(13) CMP_XODACK
(13) CMP_XOBACK
CMP_XODACK
CMP_XOBACK
R397 47J
R399 47J
XC_XODACK
XC_XOBACK
A4 ODREQ
C8 XODACK
B6 XOBACK
(13) CMP_IDREQ
(13) CMP_XIDACK
(13) CMP_XIBACK
CMP_XIDACK
CMP_XIBACK
R398 47J
R406 47J
XC_XIDACK
XC_XIBACK
C7 IDREQ
D7 XIDACK
B5 XIBACK
(13) CMP_PMDONE
C6 PMDONE
(4,5,13) BD[15:0]
(4,5,13) BD[15:0]
BD15 B7 CIOD15
BD14 A7 CIOD14
BD13 D8 CIOD13
BD12 B10 CIOD12
BD11 A8 CIOD11
BD10 C9 CIOD10
BD9 B9 CIOD9
BD8 A9 CIOD8
BD7 D10 CIOD7
BD6 C10 CIOD6
BD5 A10 CIOD5
BD4 C11 CIOD4
BD3 B11 CIOD3
BD2 A11 CIOD2
BD1 D12 CIOD1
BD0 C12 CIOD0
(4,5,13) BA[8:1]
BA8 C15 CIOA7
BA7 A14 CIOA6
BA6 C14 CIOA5
BA5 A13 CIOA4
(4,5,13) BA[4:1]
BA4 B13 CIOA3
BA3 C13 CIOA2
BA2 D13 CIOA1
BA1 A12 CIOA0
+3.3V
R380 X_10KJ
XC_XWAIT
(4) SH_BS
(3) nICUBS
(2,3) SH_CS_ICUASIC
(4) nWAIT_ICUASIC
(4) SH_RDWR
(2) SH_DREQ
(2) SH_DRAK
(2) SH_INT_ICUASIC
(2) SH_RESET_ICUASIC
R386 X_0J
R384 0J
R385 47J
R379 47J
R383 47J
XC_XBS C17 XBS
XC_XCS A16 XCS
XC_XWAIT A17 XWAIT
XC_RDXWR B15 RDXWR
XC_XDREQ C16 XDREQ
XC_DRAK B14 DRAK
XC_CINT D15 CINT
XC_XRESET B16 XRESET
(19) CPUCLK_ICU
CPUCLK_ICU
R375 10J
XC_CIOCLK A15 CIOCLK
C166 X_1000pF
DGND
(20) SYSCLK_ICU
SYSCLK_ICU
R296 10J
XC_SYSCLK C26 SYSCLK
DQ63 E25 XC_DQ63
DQ62 G25 XC_DQ62
DQ61 M25 XC_DQ61
DQ60 N25 XC_DQ60
DQ59 P24 XC_DQ59
DQ58 P26 XC_DQ58
DQ57 R26 XC_DQ57
DQ56 T26 XC_DQ56
DQ55 U25 XC_DQ55
DQ54 V23 XC_DQ54
DQ53 V25 XC_DQ53
DQ52 Y24 XC_DQ52
DQ51 AA24 XC_DQ51
DQ50 AA26 XC_DQ50
DQ49 AB26 XC_DQ49
DQ48 AD25 XC_DQ48
DQ47 AE16 XC_DQ47
DQ46 AC14 XC_DQ46
DQ45 AE14 XC_DQ45
DQ44 AE13 XC_DQ44
DQ43 AC12 XC_DQ43
DQ42 AD11 XC_DQ42
DQ41 AC10 XC_DQ41
DQ40 AF10 XC_DQ40
DQ39 AD9 XC_DQ39
DQ38 AE8 XC_DQ38
DQ37 AC7 XC_DQ37
DQ36 AD6 XC_DQ36
DQ35 AF6 XC_DQ35
DQ34 AE5 XC_DQ34
DQ33 AF4 XC_DQ33
DQ32 AF2 XC_DQ32
DQ31 G24 XC_DQ31
DQ30 H23 XC_DQ30
DQ29 N23 XC_DQ29
DQ28 N26 XC_DQ28
DQ27 P25 XC_DQ27
DQ26 R23 XC_DQ26
DQ25 T24 XC_DQ25
DQ24 U24 XC_DQ24
DQ23 U26 XC_DQ23
DQ22 V24 XC_DQ22
DQ21 W25 XC_DQ21
DQ20 Y26 XC_DQ20
DQ19 AA25 XC_DQ19
DQ18 AB25 XC_DQ18
DQ17 AC25 XC_DQ17
DQ16 AE26 XC_DQ16
DQ15 AE15 XC_DQ15
DQ14 AD14 XC_DQ14
DQ13 AD13 XC_DQ13
DQ12 AF13 XC_DQ12
DQ11 AF12 XC_DQ11
DQ10 AE11 XC_DQ10
DQ9 AD10 XC_DQ9
DQ8 AC9 XC_DQ8
DQ7 AE9 XC_DQ7
DQ6 AF8 XC_DQ6
DQ5 AF7 XC_DQ5
DQ4 AE6 XC_DQ4
DQ3 AD5 XC_DQ3
DQ2 AF5 XC_DQ2
DQ1 AE3 XC_DQ1
DQ0 AC3 XC_DQ0
SD_DMCS7
SD_DMCS6
SD_DMCS5
SD_DMCS4
SD_DMCS3
SD_DMCS2
SD_DMCS1
SD_DMCS0
SD_DMCKE3
SD_DMCKE2
SD_DMCKE1
SD_DMCKE0
R295
R359
R361
R294
XC_DMCKE1
XC_SDCKE
R345
R348
R327
R328
R329
R347
R346
XC_DMCS1
XC_XSDCS
XC_DMCS3
BA1 F25 XC_BA1
BA0 H24 XC_BA0
R293 10J
R287 10J
SD_BA1
SD_BA0
SD_BA1 (12)
SD_BA0 (12)
A12 M26 XC_A12
R316 10J
SD_A12
A11 T25 XC_A11 SD_A11
A10 V26 XC_A10 SD_A10
A9 Y23 XC_A9 SD_A9
A8 AC24 XC_A8 SD_A8
BR58 10Jx4
A7 AF22 XC_A7 SD_A7
A6 AD21 XC_A6 SD_A6
A5 AC20 XC_A5 SD_A5
A4 AD15 XC_A4 SD_A4
BR61 10Jx4
A3 AF14 XC_A3 SD_A3
A2 AE12 XC_A2 SD_A2
A1 AE10 XC_A1 SD_A1
A0 AD7 XC_A0 SD_A0
BR66 10Jx4
XWE AC17 XC_XWE SD_WE
XCAS AE19 XC_XCAS SD_CAS
XDQM AF16 XC_XDQM SD_DQM
XRAS AD19 XC_XRAS SD_RAS
BR42 10Jx4
SD_WE
SD_CAS
SD_RAS
XSDCS F24 XC_XSDCS
SDCKE E26 XC_SDCKE
XDMCS7 AF24 XC_DMCS7 SD_DMCS7
XDMCS6 AE24 XC_DMCS6 SD_DMCS6
XDMCS5 AF18 XC_DMCS5 SD_DMCS5
XDMCS4 AD17 XC_DMCS4 SD_DMCS4
BR56 47Jx4
XDMCS3 AD23 XC_DMCS3
XDMCS2 AD22 XC_DMCS2
XDMCS1 AE17 XC_DMCS1
XDMCS0 AC15 XC_DMCS0
R310 47J SD_DMCS2
R396 47J SD_DMCS0
DMCKE3 AE23 XC_DMCKE3
DMCKE2 AD20 XC_DMCKE2
DMCKE1 AF20 XC_DMCKE1
DMCKE0 AF19 XC_DMCKE0
R360 47J
R372 47J
R395 47J
SDCLK J25 XC_SDCLK
R288 10J
SDCLK_ICU
+3.3V
R377 X_J
クロックライン終端部
CPUCLK_ICU
R376 X_J
R378 X_J
C170 X_150pF
DGND
+3.3V
R283 X_J
クロックライン終端部
SYSCLK_ICU
R284 X_J
R274 X_J
C127 X_150pF
DGND
+3.3V
R281 X_J
クロックライン終端部
SDCLK_ICU
R282 X_J
R273 X_J
C126 X_150pF
DGND
+3.3V
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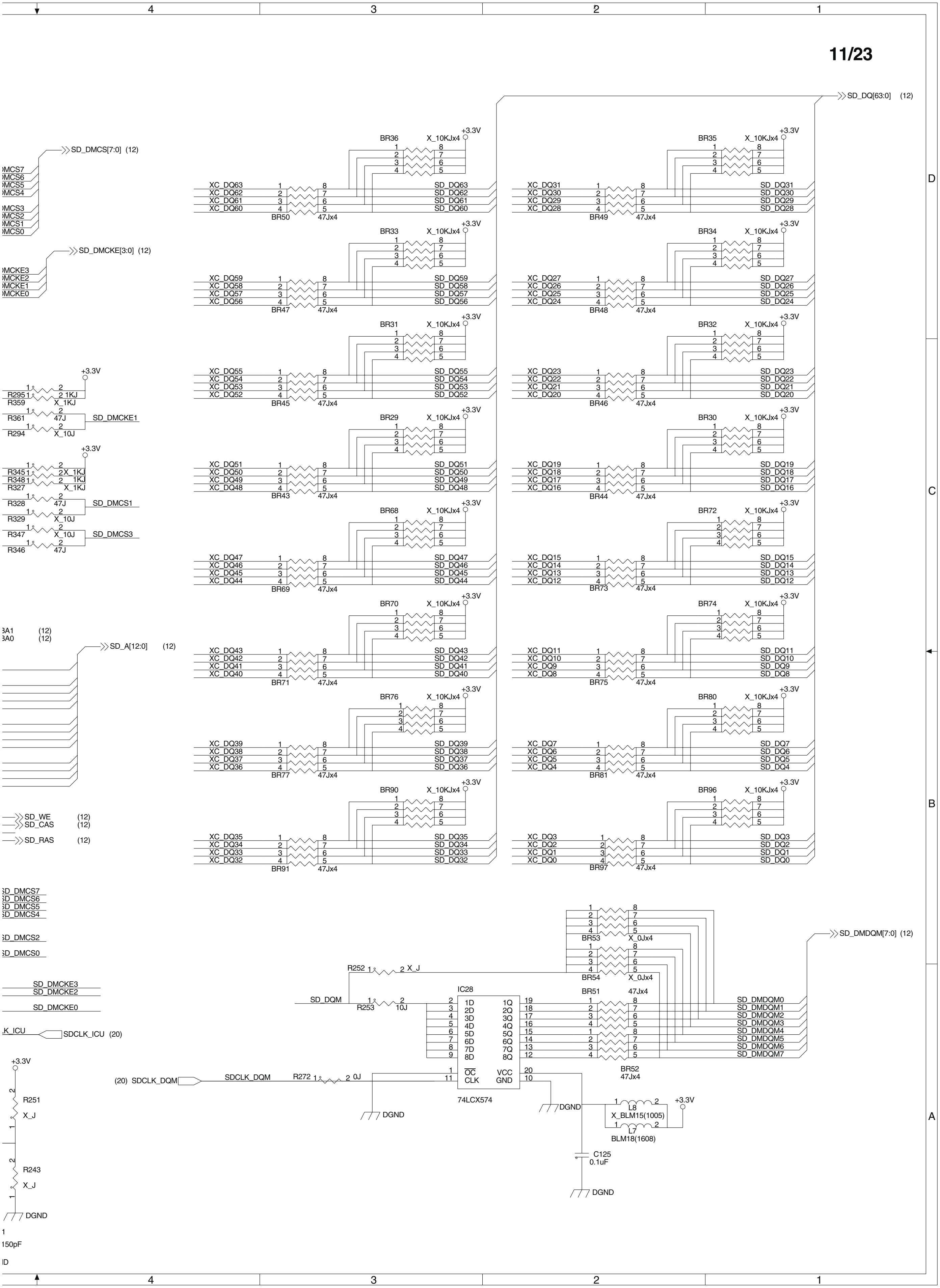
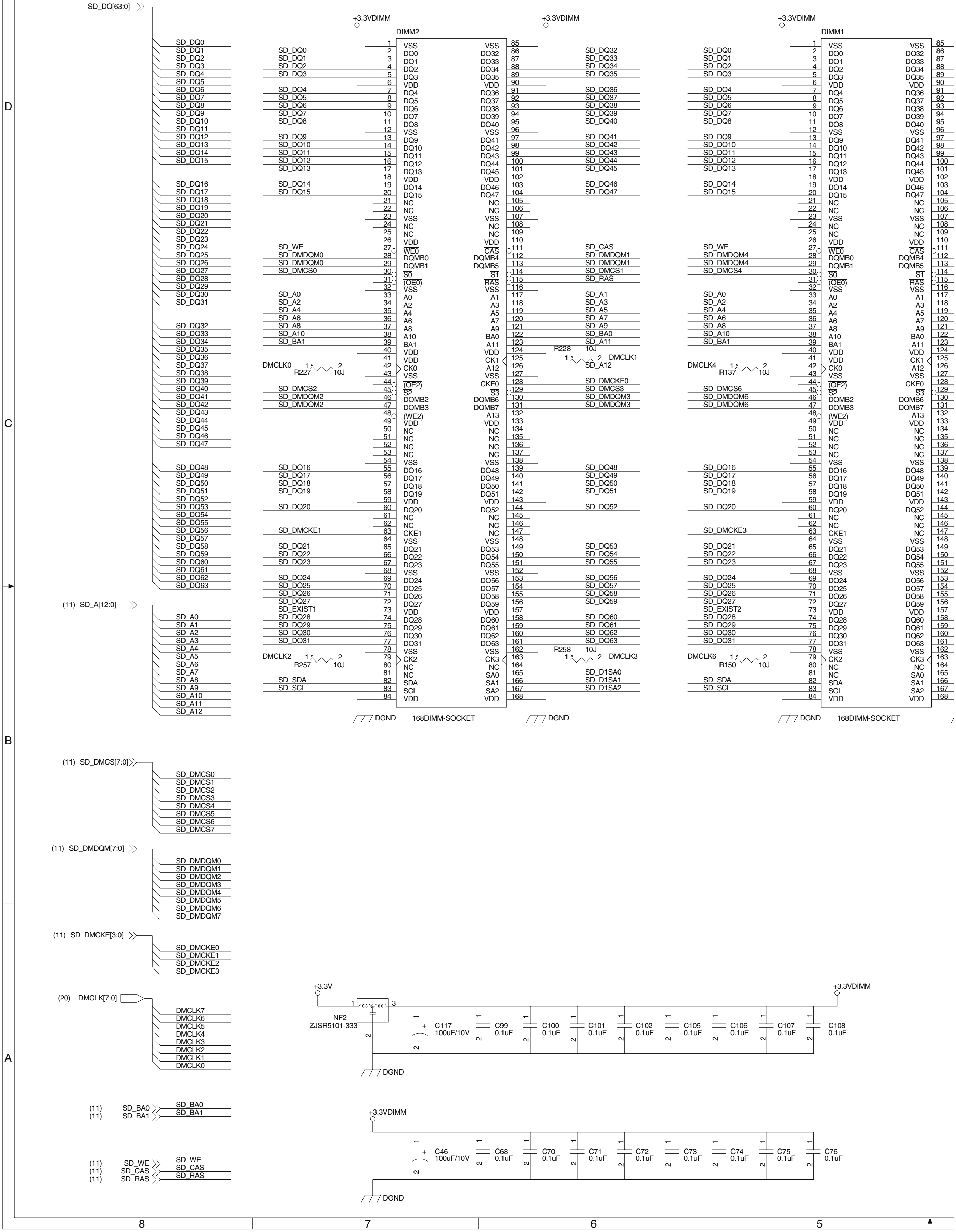
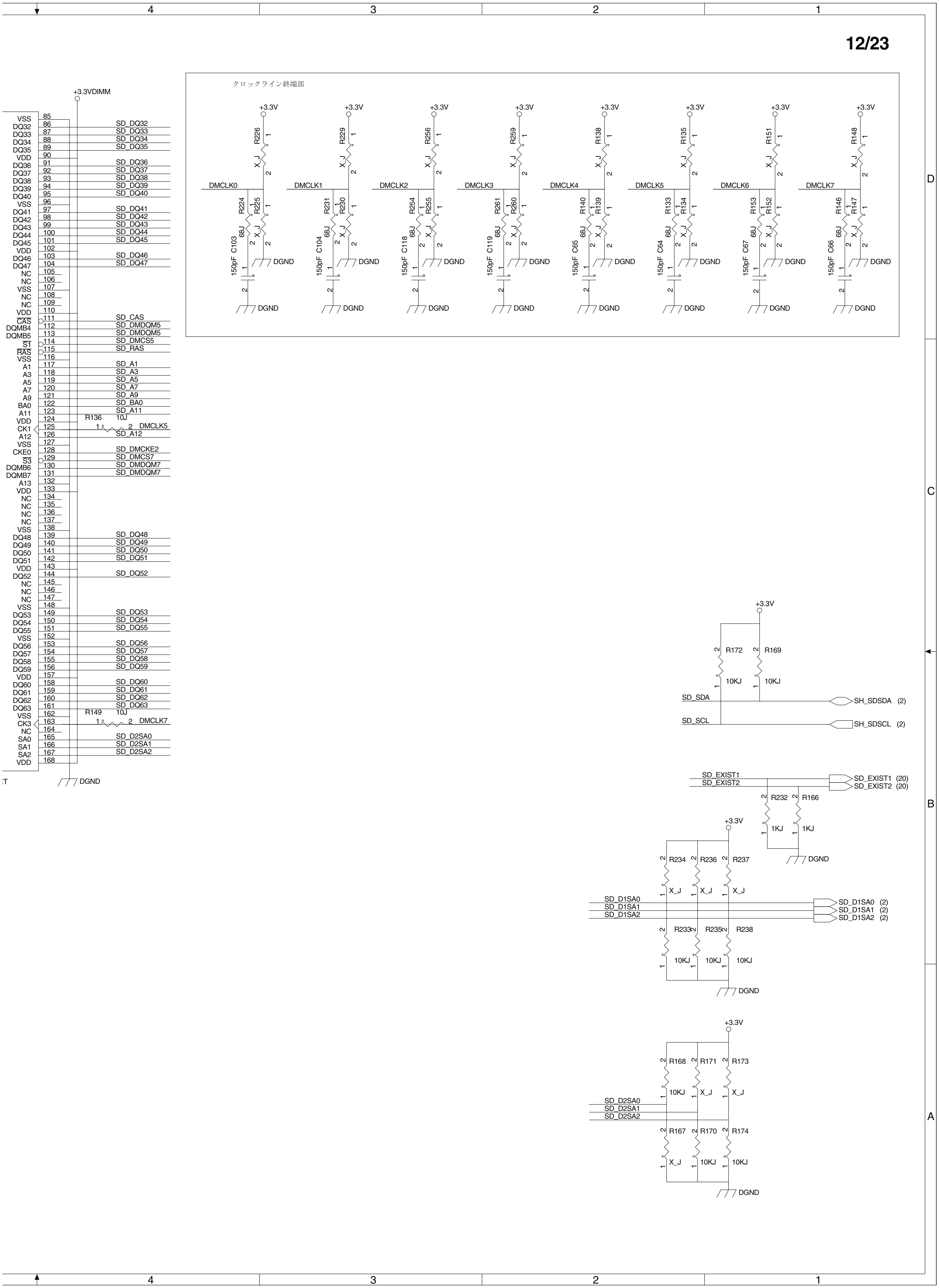
クロックライン終端部
SDCLK_DQM
R250 X_J
R243 X_J
C111 X_150pF
DGND


4
3
2
1
D
C
B
A
SD_DQ[63:0] (12)
SD_DMCS[7:0] (12)
)MCS7
)MCS6
)MCS5
)MCS4
)MCS3
)MCS2
)MCS1
)MCS0
SD_DMCKE[3:0] (12)
)MCKE3
)MCKE2
)MCKE1
)MCKE0
BR36 X_10KJx4 +3.3V
XC_DQ63 XC_DQ62 XC_DQ61 XC_DQ60
SD_DQ63 SD_DQ62 SD_DQ61 SD_DQ60
BR50 47Jx4
BR33 X_10KJx4 +3.3V
XC_DQ59 XC_DQ58 XC_DQ57 XC_DQ56
SD_DQ59 SD_DQ58 SD_DQ57 SD_DQ56
BR47 47Jx4
BR31 X_10KJx4 +3.3V
XC_DQ55 XC_DQ54 XC_DQ53 XC_DQ52
SD_DQ55 SD_DQ54 SD_DQ53 SD_DQ52
BR45 47Jx4
BR29 X_10KJx4 +3.3V
XC_DQ51 XC_DQ50 XC_DQ49 XC_DQ48
SD_DQ51 SD_DQ50 SD_DQ49 SD_DQ48
BR43 47Jx4
BR68 X_10KJx4 +3.3V
XC_DQ47 XC_DQ46 XC_DQ45 XC_DQ44
SD_DQ47 SD_DQ46 SD_DQ45 SD_DQ44
BR69 47Jx4
BR70 X_10KJx4 +3.3V
XC_DQ43 XC_DQ42 XC_DQ41 XC_DQ40
SD_DQ43 SD_DQ42 SD_DQ41 SD_DQ40
BR71 47Jx4
BR76 X_10KJx4 +3.3V
XC_DQ39 XC_DQ38 XC_DQ37 XC_DQ36
SD_DQ39 SD_DQ38 SD_DQ37 SD_DQ36
BR77 47Jx4
BR90 X_10KJx4 +3.3V
XC_DQ35 XC_DQ34 XC_DQ33 XC_DQ32
SD_DQ35 SD_DQ34 SD_DQ33 SD_DQ32
BR91 47Jx4
BR35 X_10KJx4 +3.3V
XC_DQ31 XC_DQ30 XC_DQ29 XC_DQ28
SD_DQ31 SD_DQ30 SD_DQ29 SD_DQ28
BR49 47Jx4
BR34 X_10KJx4 +3.3V
XC_DQ27 XC_DQ26 XC_DQ25 XC_DQ24
SD_DQ27 SD_DQ26 SD_DQ25 SD_DQ24
BR48 47Jx4
BR32 X_10KJx4 +3.3V
XC_DQ23 XC_DQ22 XC_DQ21 XC_DQ20
SD_DQ23 SD_DQ22 SD_DQ21 SD_DQ20
BR46 47Jx4
BR30 X_10KJx4 +3.3V
XC_DQ19 XC_DQ18 XC_DQ17 XC_DQ16
SD_DQ19 SD_DQ18 SD_DQ17 SD_DQ16
BR44 47Jx4
BR72 X_10KJx4 +3.3V
XC_DQ15 XC_DQ14 XC_DQ13 XC_DQ12
SD_DQ15 SD_DQ14 SD_DQ13 SD_DQ12
BR73 47Jx4
BR74 X_10KJx4 +3.3V
XC_DQ11 XC_DQ10 XC_DQ9 XC_DQ8
SD_DQ11 SD_DQ10 SD_DQ9 SD_DQ8
BR75 47Jx4
BR80 X_10KJx4 +3.3V
XC_DQ7 XC_DQ6 XC_DQ5 XC_DQ4
SD_DQ7 SD_DQ6 SD_DQ5 SD_DQ4
BR81 47Jx4
BR96 X_10KJx4 +3.3V
XC_DQ3 XC_DQ2 XC_DQ1 XC_DQ0
SD_DQ3 SD_DQ2 SD_DQ1 SD_DQ0
BR97 47Jx4
+3.3V
R295 1KJ
R359 X_1KJ
R361 47J
R294 X_10J
SD_DMCKE1
+3.3V
R345 X_1KJ
R348 1KJ
R327 X_1KJ
R328 47J
SD_DMCS1
R329 X_10J
R347 X_10J
SD_DMCS3
R346 47J
3A1 (12)
3A0 (12)
SD_A[12:0] (12)
SD_WE (12)
SD_CAS (12)
SD_RAS (12)
SD_DMCS7
SD_DMCS6
SD_DMCS5
SD_DMCS4
SD_DMCS2
SD_DMCS0
SD_DMCKE3
SD_DMCKE2
SD_DMCKE0
_K_ICU
SDCLK_ICU (20)
BR53 X_0Jx4
BR54 X_0Jx4
SD_DMDQM[7:0] (12)
R252 X_J
IC28
SD_DQM
R253 10J
BR51 47Jx4
1D 2D 3D 4D 5D 6D 7D 8D
1Q 2Q 3Q 4Q 5Q 6Q 7Q 8Q
OC CLK
VCC GND
74LCX574
SD_DMDQM0
SD_DMDQM1
SD_DMDQM2
SD_DMDQM3
SD_DMDQM4
SD_DMDQM5
SD_DMDQM6
SD_DMDQM7
BR52 47Jx4
(20) SDCLK_DQM
SDCLK_DQM
R272 0J
DGND
DGND
L8 X_BLM15(1005)
+3.3V
L7 BLM18(1608)
C125 0.1uF
DGND
+3.3V
R251 X_J
R243 X_J
DGND
150pF
ID

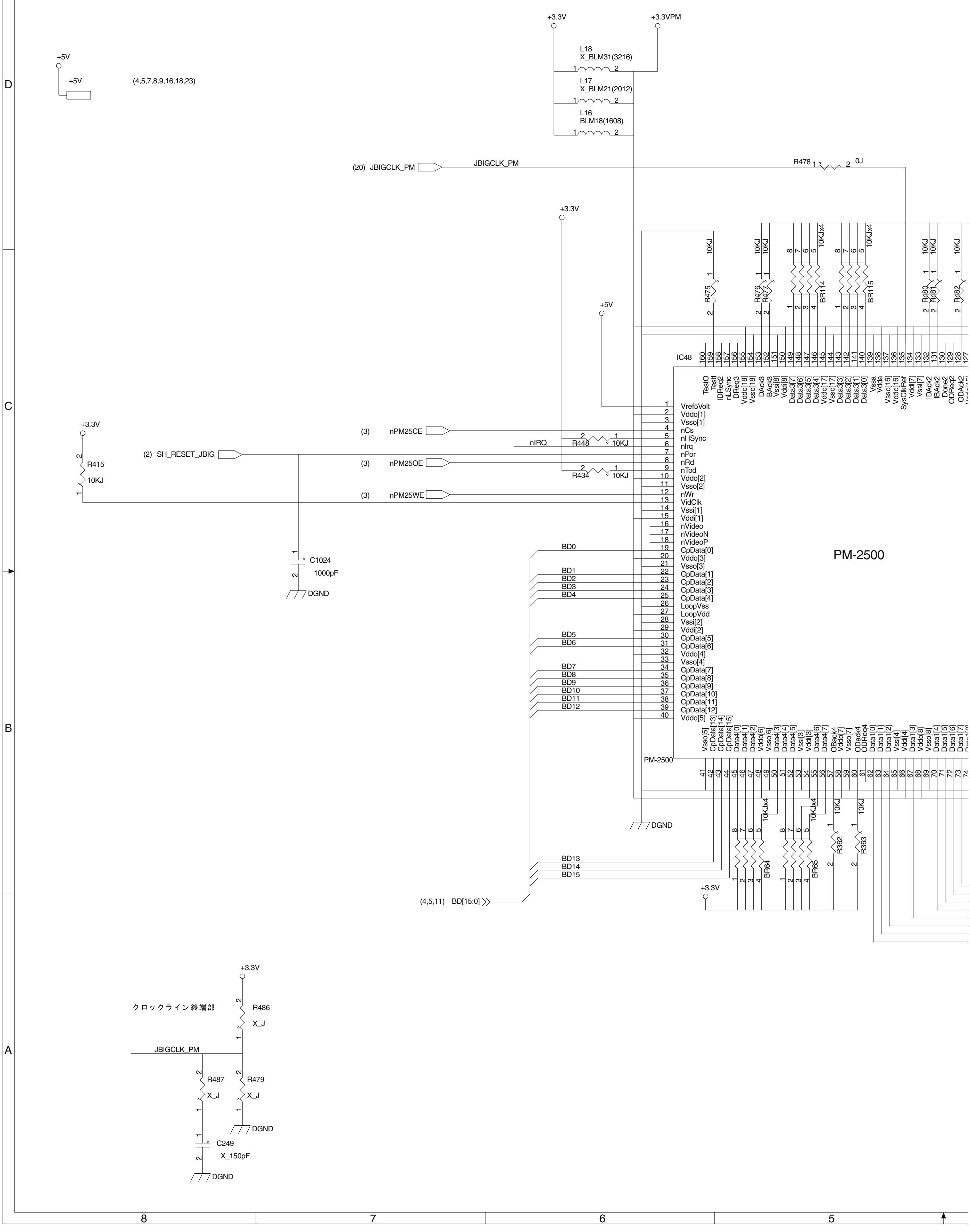
ICU PWB (DIMM)

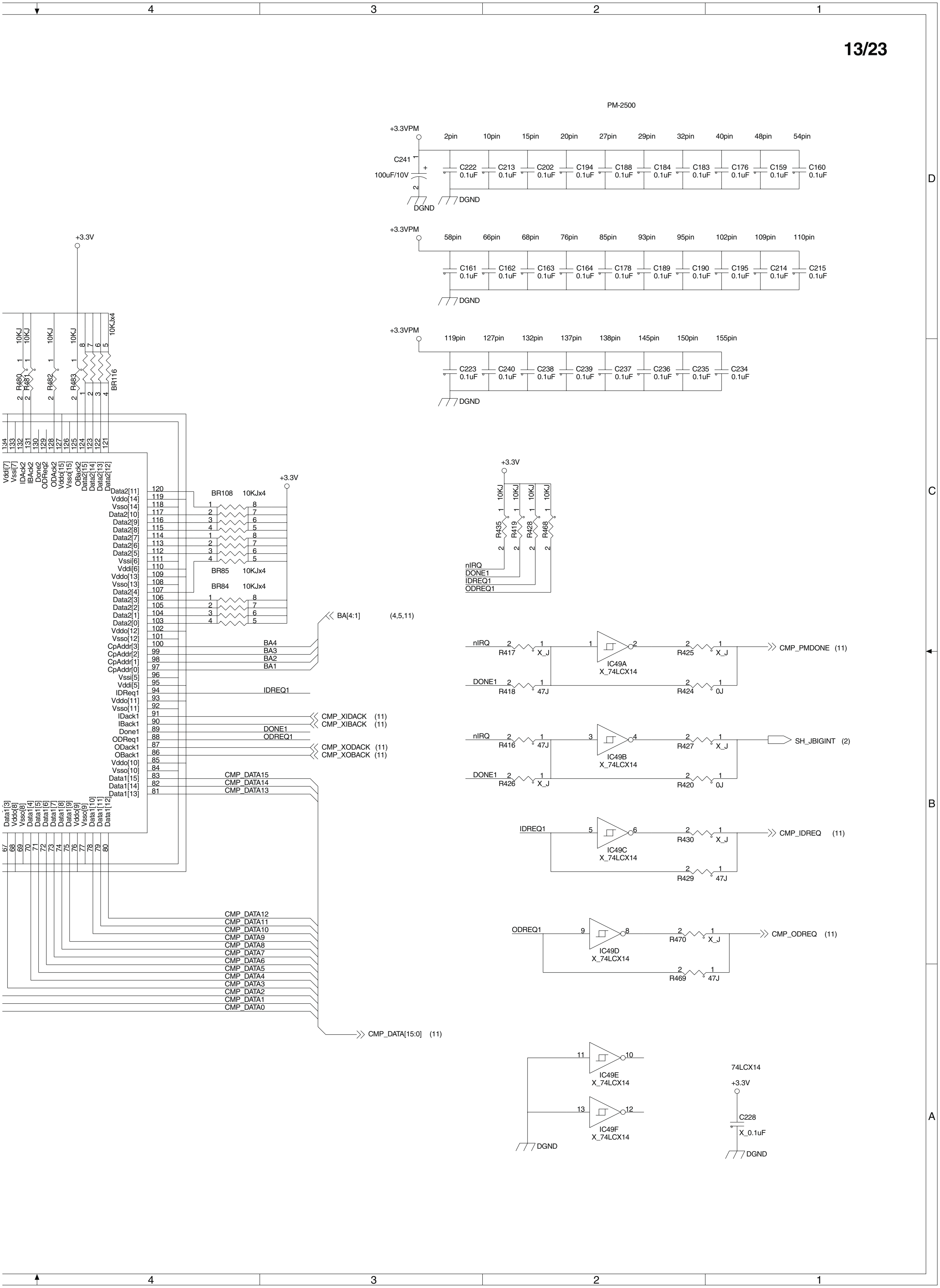


8
7
6
5
D
C
B
A
SD_DQ[63:0]
SD_DQ0 … SD_DQ63
(11) SD_A[12:0]
SD_A0 … SD_A12
(11) SD_DMCS[7:0]
SD_DMCS0 … SD_DMCS7
(11) SD_DMDQM[7:0]
SD_DMDQM0 … SD_DMDQM7
(11) SD_DMCKE[3:0]
SD_DMCKE0 … SD_DMCKE3
(20) DMCLK[7:0]
DMCLK7 … DMCLK0
(11) SD_BA0
(11) SD_BA1
(11) SD_WE
(11) SD_CAS
(11) SD_RAS
+3.3VDIMM
DIMM2
DIMM1
168DIMM-SOCKET
DGND
VSS
VDD
NC
DQ0 … DQ63
WE0
DQMB0 … DQMB7
S0 S1 S2 S3
(OE0)
(OE2)
(WE2)
CAS
RAS
A0 … A13
BA0
BA1
CK0 CK1 CK2 CK3
CKE0 CKE1
SDA
SCL
SA0 SA1 SA2
SD_EXIST1
SD_EXIST2
SD_D1SA0
SD_D1SA1
SD_D1SA2
SD_SDA
SD_SCL
DMCLK0 R227 10J
DMCLK1 R228 10J
DMCLK2 R257 10J
DMCLK3 R258 10J
DMCLK4 R137 10J
DMCLK6 R150 10J
+3.3V
NF2
ZJSR5101-333
C117 100uF/10V
C99 0.1uF
C100 0.1uF
C101 0.1uF
C102 0.1uF
C105 0.1uF
C106 0.1uF
C107 0.1uF
C108 0.1uF
C46 100uF/10V
C68 0.1uF
C70 0.1uF
C71 0.1uF
C72 0.1uF
C73 0.1uF
C74 0.1uF
C75 0.1uF
C76 0.1uF

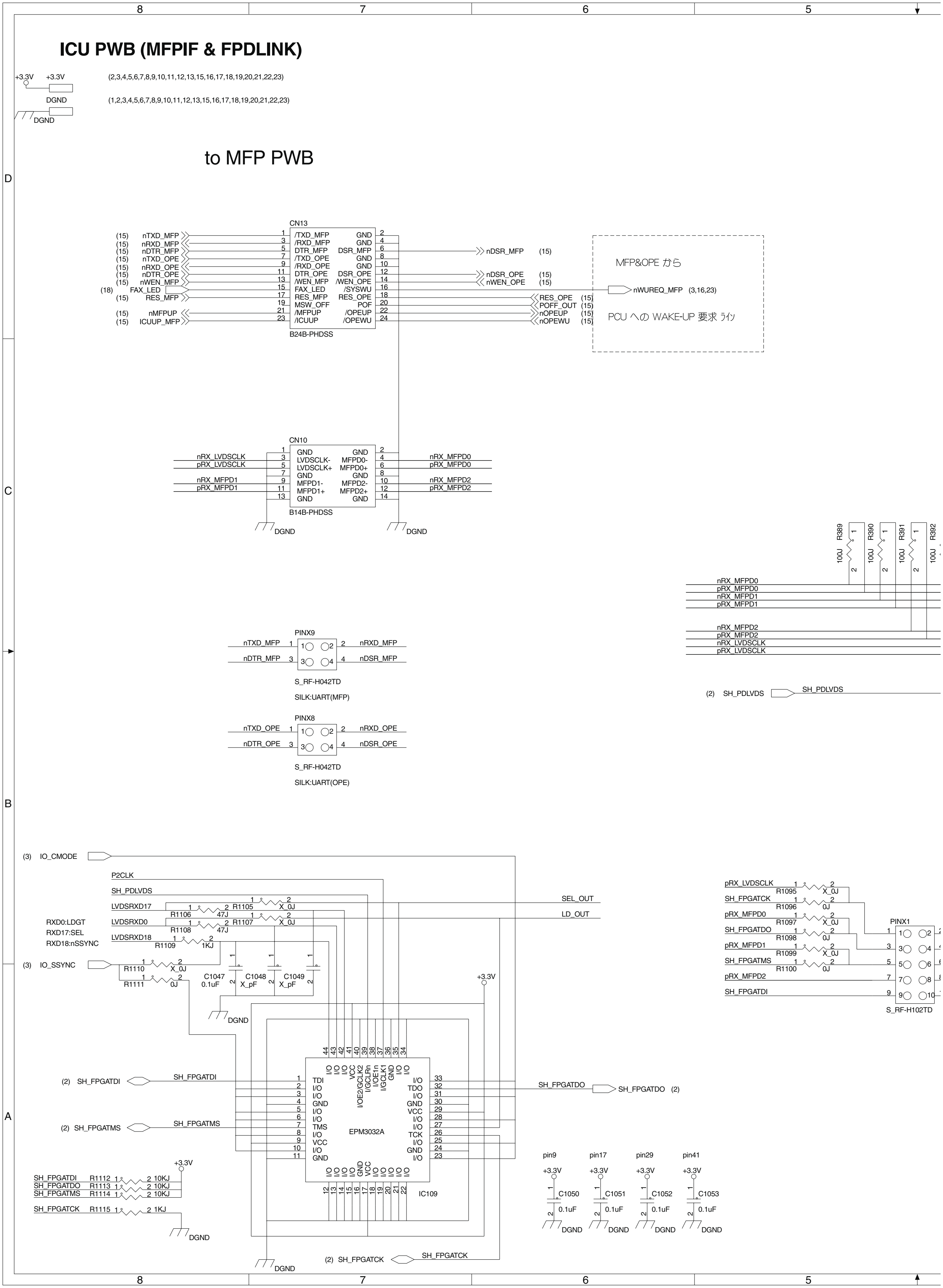

12/23
4
3
2
1
D
C
B
A
クロックライン終端部
+3.3VDIMM
VSS 85
DQ32 86 SD_DQ32
DQ33 87 SD_DQ33
DQ34 88 SD_DQ34
DQ35 89 SD_DQ35
VDD 90
DQ36 91 SD_DQ36
DQ37 92 SD_DQ37
DQ38 93 SD_DQ38
DQ39 94 SD_DQ39
DQ40 95 SD_DQ40
VSS 96
DQ41 97 SD_DQ41
DQ42 98 SD_DQ42
DQ43 99 SD_DQ43
DQ44 100 SD_DQ44
DQ45 101 SD_DQ45
VDD 102
DQ46 103 SD_DQ46
DQ47 104 SD_DQ47
NC 105
NC 106
VSS 107
NC 108
NC 109
VDD 110
CAS 111 SD_CAS
DQMB4 112 SD_DMDQM5
DQMB5 113 SD_DMDQM5
S1 114 SD_DMCS5
RAS 115 SD_RAS
VSS 116
A1 117 SD_A1
A3 118 SD_A3
A5 119 SD_A5
A7 120 SD_A7
A9 121 SD_A9
BA0 122 SD_BA0
A11 123 SD_A11
VDD 124
CK1 125
A12 126 SD_A12
VSS 127
CKE0 128 SD_DMCKE2
S3 129 SD_DMCS7
DQMB6 130 SD_DMDQM7
DQMB7 131 SD_DMDQM7
A13 132
VDD 133
NC 134
NC 135
NC 136
NC 137
VSS 138
DQ48 139 SD_DQ48
DQ49 140 SD_DQ49
DQ50 141 SD_DQ50
DQ51 142 SD_DQ51
VDD 143
DQ52 144 SD_DQ52
NC 145
NC 146
NC 147
VSS 148
DQ53 149 SD_DQ53
DQ54 150 SD_DQ54
DQ55 151 SD_DQ55
VSS 152
DQ56 153 SD_DQ56
DQ57 154 SD_DQ57
DQ58 155 SD_DQ58
DQ59 156 SD_DQ59
VDD 157
DQ60 158 SD_DQ60
DQ61 159 SD_DQ61
DQ62 160 SD_DQ62
DQ63 161 SD_DQ63
VSS 162
CK3 163
NC 164
SA0 165 SD_D2SA0
SA1 166 SD_D2SA1
SA2 167 SD_D2SA2
VDD 168
R136 10J 1 2 DMCLK5
R149 10J 1 2 DMCLK7
DGND
+3.3V
R226 R229 R256 R259 R138 R135 R151 R148
X_J
DMCLK0 DMCLK1 DMCLK2 DMCLK3 DMCLK4 DMCLK5 DMCLK6 DMCLK7
R224 R225 R231 R230 R254 R255 R261 R260 R140 R139 R133 R134 R153 R152 R146 R147
68J
150pF C103 C104 C118 C119 C65 C64 C67 C66
DGND
+3.3V
R172 R169 10KJ
SD_SDA SH_SDSDA (2)
SD_SCL SH_SDSCL (2)
SD_EXIST1 SD_EXIST1 (20)
SD_EXIST2 SD_EXIST2 (20)
R232 R166 1KJ
DGND
+3.3V
R234 R236 R237 X_J
SD_D1SA0 SD_D1SA0 (2)
SD_D1SA1 SD_D1SA1 (2)
SD_D1SA2 SD_D1SA2 (2)
R233 R235 R238 10KJ
DGND
+3.3V
R168 10KJ R171 X_J R173 X_J
SD_D2SA0
SD_D2SA1
SD_D2SA2
R167 X_J R170 10KJ R174 10KJ
DGND

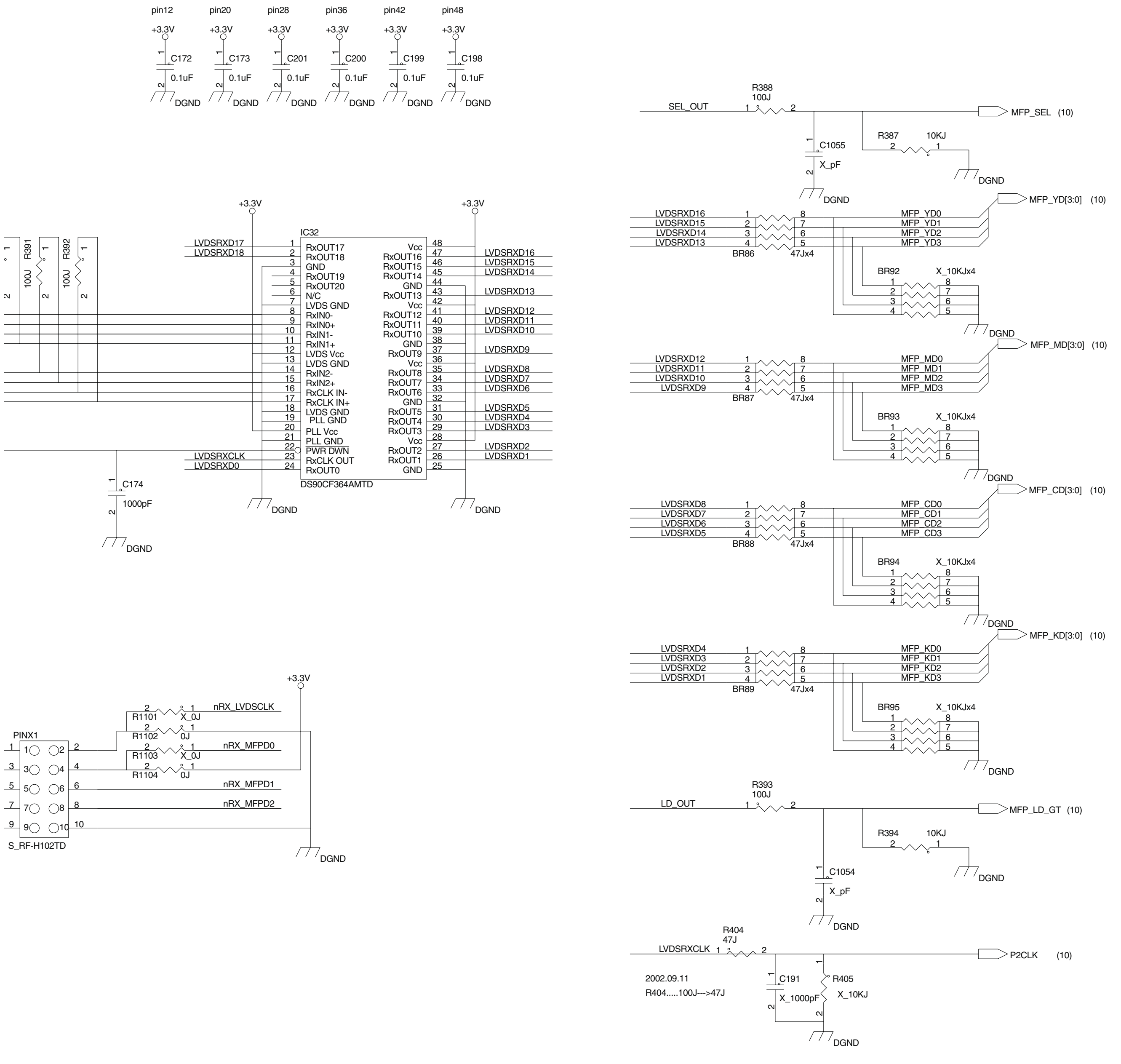
ICU PWB (PM-2500)


+5V
+5V
(4,5,7,8,9,16,18,23)
+3.3V
+3.3VPM
L18
X_BLM31(3216)
L17
X_BLM21(2012)
L16
BLM18(1608)
(20) JBIGCLK_PM
JBIGCLK_PM
R478
0J
+3.3V
+5V
R475
10KJ
R476
R477
10KJ
10KJ
BR114
10KJx4
BR115
10KJx4
R480
R481
10KJ
10KJ
R482
10KJ
IC48
TestO
TestI
IDReq2
nLSync
DReq3
Vddo[18]
Vsso[18]
DAck3
BAck3
Vssi[8]
Vddi[8]
Data3[7]
Data3[6]
Data3[5]
Data3[4]
Vddo[17]
Vsso[17]
Data3[3]
Data3[2]
Data3[1]
Data3[0]
Vssa
Vdda
Vsso[16]
Vddo[16]
SysClkRef
Vddi[7]
Vssi[7]
IDAck2
IBAck2
Done2
ODReq2
ODAck2
+3.3V
R415
10KJ
(2) SH_RESET_JBIG
(3) nPM25CE
nIRQ
R448
10KJ
(3) nPM25OE
R434
10KJ
(3) nPM25WE
C1024
1000pF
DGND
Vref5Volt
Vddo[1]
Vsso[1]
nCs
nHSync
nIrq
nPor
nRd
nTod
Vddo[2]
Vsso[2]
nWr
VidClk
Vssi[1]
Vddi[1]
nVideo
nVideoN
nVideoP
CpData[0]
Vddo[3]
Vsso[3]
CpData[1]
CpData[2]
CpData[3]
CpData[4]
LoopVss
LoopVdd
Vssi[2]
Vddi[2]
CpData[5]
CpData[6]
Vddo[4]
Vsso[4]
CpData[7]
CpData[8]
CpData[9]
CpData[10]
CpData[11]
CpData[12]
Vddo[5]
PM-2500
BD0
BD1
BD2
BD3
BD4
BD5
BD6
BD7
BD8
BD9
BD10
BD11
BD12
Vsso[5]
CpData[13]
CpData[14]
CpData[15]
Data4[0]
Data4[1]
Data4[2]
Vddo[6]
Vsso[6]
Data4[3]
Data4[4]
Data4[5]
Vssi[3]
Vddi[3]
Data4[6]
Data4[7]
OBack4
Vddo[7]
Vsso[7]
ODack4
ODReq4
Data1[0]
Data1[1]
Data1[2]
Vssi[4]
Vddi[4]
Data1[3]
Vddo[8]
Vsso[8]
Data1[4]
Data1[5]
Data1[6]
Data1[7]
PM-2500
DGND
BR64
10KJx4
BR65
10KJx4
R362
10KJ
R363
10KJ
+3.3V
BD13
BD14
BD15
(4,5,11) BD[15:0]
+3.3V
クロックライン終端部
R486
X_J
JBIGCLK_PM
R487
X_J
R479
X_J
DGND
C249
X_150pF
DGND
8
7
6
5
D
C
B
A

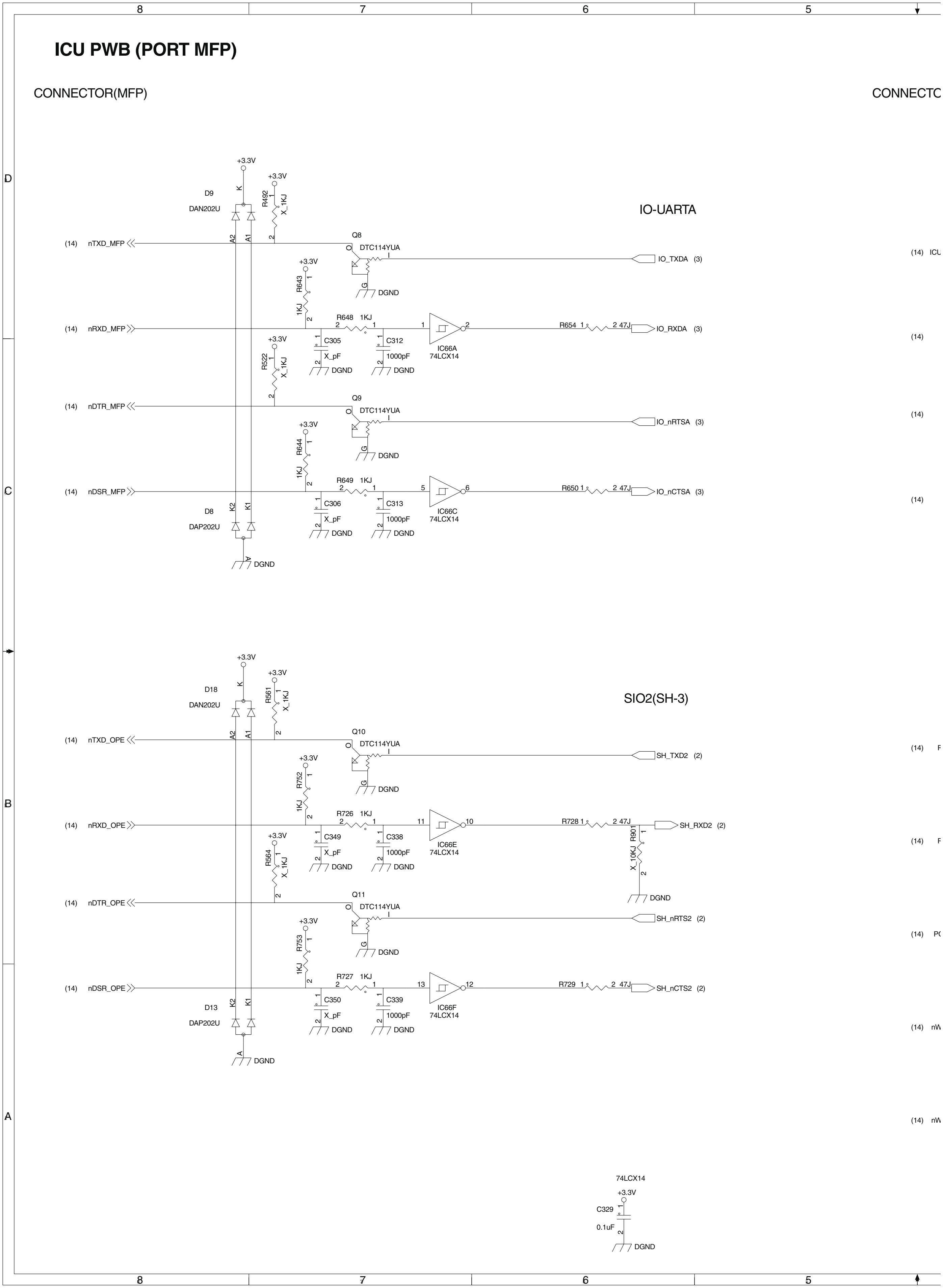

PM-2500
+3.3VPM
2pin 10pin 15pin 20pin 27pin 29pin 32pin 40pin 48pin 54pin
C241 100uF/10V
C222 C213 C202 C194 C188 C184 C183 C176 C159 C160 0.1uF
DGND
58pin 66pin 68pin 76pin 85pin 93pin 95pin 102pin 109pin 110pin
C161 C162 C163 C164 C178 C189 C190 C195 C214 C215 0.1uF
119pin 127pin 132pin 137pin 138pin 145pin 150pin 155pin
C223 C240 C238 C239 C237 C236 C235 C234 0.1uF
+3.3V
R480 R481 R482 R483 10KJ
BR116 10KJx4
Vddi[7] Vssi[7] IDAck2 IBAck2 Done2 ODReq2 ODAck2 Vddo[15] Vsso[15] OBack2 Data2[15] Data2[14] Data2[13] Data2[12]
Data2[11] Vddo[14] Vsso[14] Data2[10] Data2[9] Data2[8] Data2[7] Data2[6] Data2[5] Vssi[6] Vddi[6] Vddo[13] Vsso[13] Data2[4] Data2[3] Data2[2] Data2[1] Data2[0] Vddo[12] Vsso[12] CpAddr[3] CpAddr[2] CpAddr[1] CpAddr[0] Vssi[5] Vddi[5] IDReq1 Vddo[11] Vsso[11] IDack1 IBack1 Done1 ODReq1 ODack1 OBack1 Vddo[10] Vsso[10] Data1[15] Data1[14] Data1[13]
Data1[3] Vddo[8] Vsso[8] Data1[4] Data1[5] Data1[6] Data1[7] Data1[8] Data1[9] Vddo[9] Vsso[9] Data1[10] Data1[11] Data1[12]
BR108 10KJx4
BR85 10KJx4
BR84 10KJx4
BA[4:1] (4,5,11)
BA4 BA3 BA2 BA1
IDREQ1
CMP_XIDACK (11)
CMP_XIBACK (11)
DONE1
ODREQ1
CMP_XODACK (11)
CMP_XOBACK (11)
CMP_DATA15 CMP_DATA14 CMP_DATA13 CMP_DATA12 CMP_DATA11 CMP_DATA10 CMP_DATA9 CMP_DATA8 CMP_DATA7 CMP_DATA6 CMP_DATA5 CMP_DATA4 CMP_DATA3 CMP_DATA2 CMP_DATA1 CMP_DATA0
CMP_DATA[15:0] (11)
R435 R419 R428 R468 10KJ
nIRQ DONE1 IDREQ1 ODREQ1
R417 X_J
R418 47J
IC49A X_74LCX14
R425 X_J
R424 0J
CMP_PMDONE (11)
R416 47J
R426 X_J
IC49B X_74LCX14
R427 X_J
R420 0J
SH_JBIGINT (2)
IC49C X_74LCX14
R430 X_J
R429 47J
CMP_IDREQ (11)
IC49D X_74LCX14
R470 X_J
R469 47J
CMP_ODREQ (11)
IC49E X_74LCX14
IC49F X_74LCX14
74LCX14
C228 X_0.1uF
4 3 2 1
D C B A

ICU PWB (MFPIF & FPDLINK)


+3.3V
+3.3V
(2,3,4,5,6,7,8,9,10,11,12,13,15,16,17,18,19,20,21,22,23)
DGND
(1,2,3,4,5,6,7,8,9,10,11,12,13,15,16,17,18,19,20,21,22,23)
DGND
to MFP PWB
CN13
(15) nTXD_MFP
(15) nRXD_MFP
(15) nDTR_MFP
(15) nTXD_OPE
(15) nRXD_OPE
(15) nDTR_OPE
(15) nWEN_MFP
(18) FAX_LED
(15) RES_MFP
(15) nMFPUP
(15) ICUUP_MFP
/TXD_MFP
/RXD_MFP
DTR_MFP
/TXD_OPE
/RXD_OPE
DTR_OPE
/WEN_MFP
FAX_LED
RES_MFP
MSW_OFF
/MFPUP
/ICUUP
GND
GND
DSR_MFP
GND
GND
DSR_OPE
/WEN_OPE
/SYSWU
RES_OPE
POF
/OPEUP
/OPEWU
B24B-PHDSS
nDSR_MFP (15)
nDSR_OPE (15)
nWEN_OPE (15)
nWUREQ_MFP (3,16,23)
RES_OPE (15)
POFF_OUT (15)
nOPEUP (15)
nOPEWU (15)
MFP&OPE から
PCU への WAKE-UP 要求 ﾗｲﾝ
CN10
nRX_LVDSCLK
pRX_LVDSCLK
nRX_MFPD1
pRX_MFPD1
GND
LVDSCLK-
LVDSCLK+
GND
MFPD1-
MFPD1+
GND
GND
MFPD0-
MFPD0+
GND
MFPD2-
MFPD2+
GND
B14B-PHDSS
nRX_MFPD0
pRX_MFPD0
nRX_MFPD2
pRX_MFPD2
DGND
DGND
R389
R390
R391
R392
100J
nRX_MFPD0
pRX_MFPD0
nRX_MFPD1
pRX_MFPD1
nRX_MFPD2
pRX_MFPD2
nRX_LVDSCLK
pRX_LVDSCLK
PINX9
nTXD_MFP
nDTR_MFP
nRXD_MFP
nDSR_MFP
S_RF-H042TD
SILK:UART(MFP)
PINX8
nTXD_OPE
nDTR_OPE
nRXD_OPE
nDSR_OPE
S_RF-H042TD
SILK:UART(OPE)
(2) SH_PDLVDS
SH_PDLVDS
(3) IO_CMODE
P2CLK
SH_PDLVDS
LVDSRXD17
LVDSRXD0
LVDSRXD18
RXD0:LDGT
RXD17:SEL
RXD18:nSSYNC
R1105 X_0J
R1106 47J
R1107 X_0J
R1108 47J
R1109 1KJ
SEL_OUT
LD_OUT
(3) IO_SSYNC
R1110 X_0J
R1111 0J
C1047 0.1uF
C1048 X_pF
C1049 X_pF
+3.3V
DGND
pRX_LVDSCLK
SH_FPGATCK
pRX_MFPD0
SH_FPGATDO
pRX_MFPD1
SH_FPGATMS
pRX_MFPD2
SH_FPGATDI
R1095 X_0J
R1096 0J
R1097 X_0J
R1098 0J
R1099 X_0J
R1100 0J
PINX1
S_RF-H102TD
(2) SH_FPGATDI
SH_FPGATDI
(2) SH_FPGATMS
SH_FPGATMS
TDI
I/O
I/O
GND
I/O
I/O
TMS
I/O
VCC
I/O
GND
I/O
I/O
I/O
VCC
I/OE2/GCLK2
I/GCLRn
I/OE1n
I/GCLK1
GND
I/O
I/O
I/O
TDO
I/O
GND
VCC
I/O
I/O
TCK
I/O
GND
I/O
EPM3032A
IC109
SH_FPGATDO
SH_FPGATDO (2)
+3.3V
SH_FPGATDI R1112 10KJ
SH_FPGATDO R1113 10KJ
SH_FPGATMS R1114 10KJ
SH_FPGATCK R1115 1KJ
DGND
pin9
pin17
pin29
pin41
+3.3V
C1050 0.1uF
C1051 0.1uF
C1052 0.1uF
C1053 0.1uF
DGND
(2) SH_FPGATCK
SH_FPGATCK
DGND
8
7
6
5
D
C
B
A

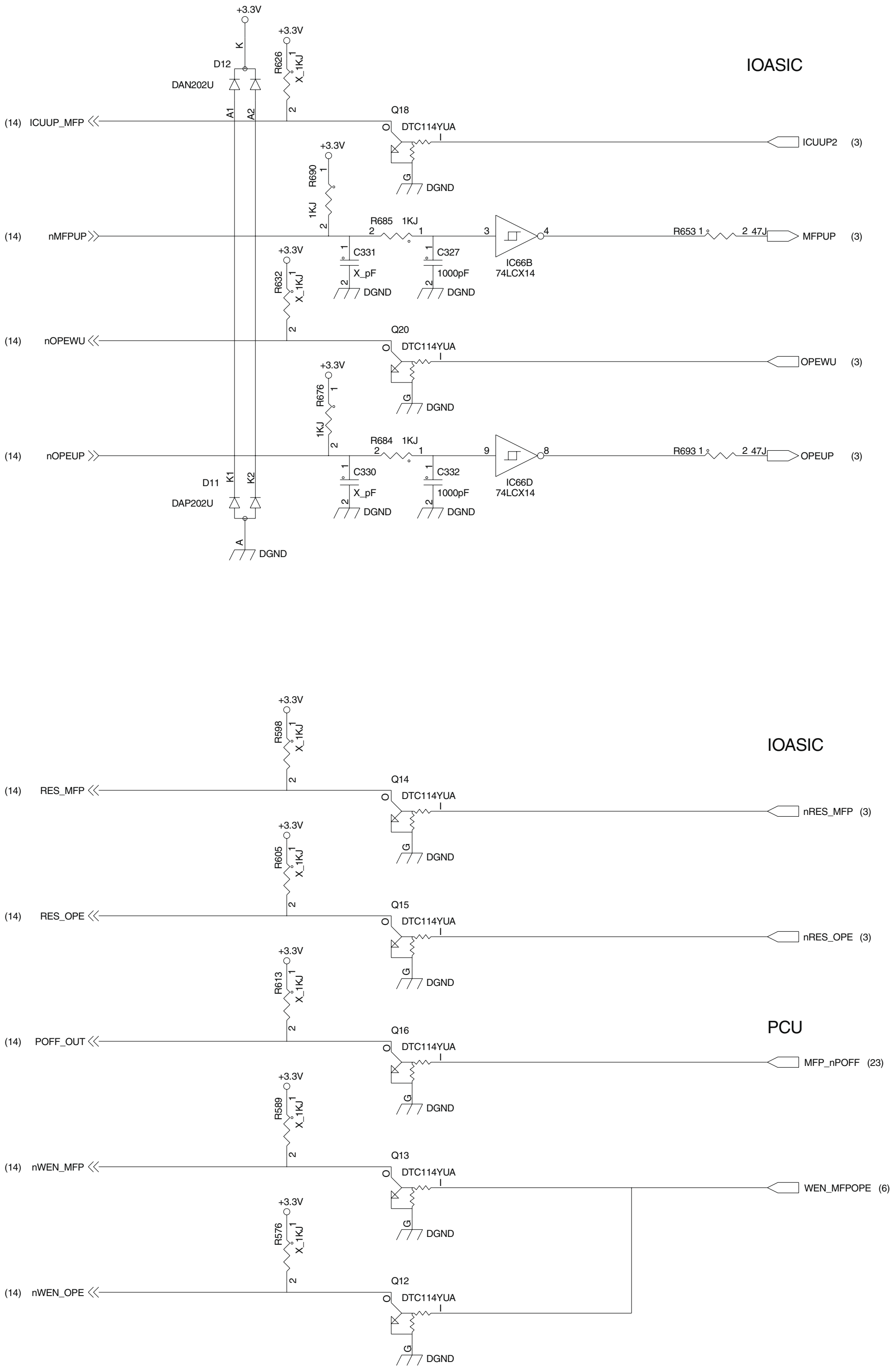

pin12
pin20
pin28
pin36
pin42
pin48
+3.3V
C172
C173
C201
C200
C199
C198
0.1uF
DGND
R388
100J
SEL_OUT
MFP_SEL (10)
R387
10KJ
C1055
X_pF
IC32
DS90CF364AMTD
RxOUT17
RxOUT18
GND
RxOUT19
RxOUT20
N/C
LVDS GND
RxIN0-
RxIN0+
RxIN1-
RxIN1+
LVDS Vcc
LVDS GND
RxIN2-
RxIN2+
RxCLK IN-
RxCLK IN+
LVDS GND
PLL GND
PLL Vcc
PLL GND
PWR DWN
RxCLK OUT
RxOUT0
Vcc
RxOUT16
RxOUT15
RxOUT14
GND
RxOUT13
Vcc
RxOUT12
RxOUT11
RxOUT10
GND
RxOUT9
Vcc
RxOUT8
RxOUT7
RxOUT6
GND
RxOUT5
RxOUT4
RxOUT3
Vcc
RxOUT2
RxOUT1
GND
LVDSRXD17
LVDSRXD18
LVDSRXCLK
LVDSRXD0
LVDSRXD16
LVDSRXD15
LVDSRXD14
LVDSRXD13
LVDSRXD12
LVDSRXD11
LVDSRXD10
LVDSRXD9
LVDSRXD8
LVDSRXD7
LVDSRXD6
LVDSRXD5
LVDSRXD4
LVDSRXD3
LVDSRXD2
LVDSRXD1
R391
R392
100J
C174
1000pF
MFP_YD[3:0] (10)
MFP_YD0
MFP_YD1
MFP_YD2
MFP_YD3
BR86
47Jx4
BR92
X_10KJx4
MFP_MD[3:0] (10)
MFP_MD0
MFP_MD1
MFP_MD2
MFP_MD3
BR87
BR93
MFP_CD[3:0] (10)
MFP_CD0
MFP_CD1
MFP_CD2
MFP_CD3
BR88
BR94
MFP_KD[3:0] (10)
MFP_KD0
MFP_KD1
MFP_KD2
MFP_KD3
BR89
BR95
PINX1
S_RF-H102TD
R1101
X_0J
R1102
0J
R1103
X_0J
R1104
0J
nRX_LVDSCLK
nRX_MFPD0
nRX_MFPD1
nRX_MFPD2
R393
100J
LD_OUT
MFP_LD_GT (10)
R394
10KJ
C1054
X_pF
R404
47J
LVDSRXCLK
P2CLK (10)
C191
X_1000pF
R405
X_10KJ
2002.09.11
R404.....100J--->47J

ICU PWB (PORT MFP)

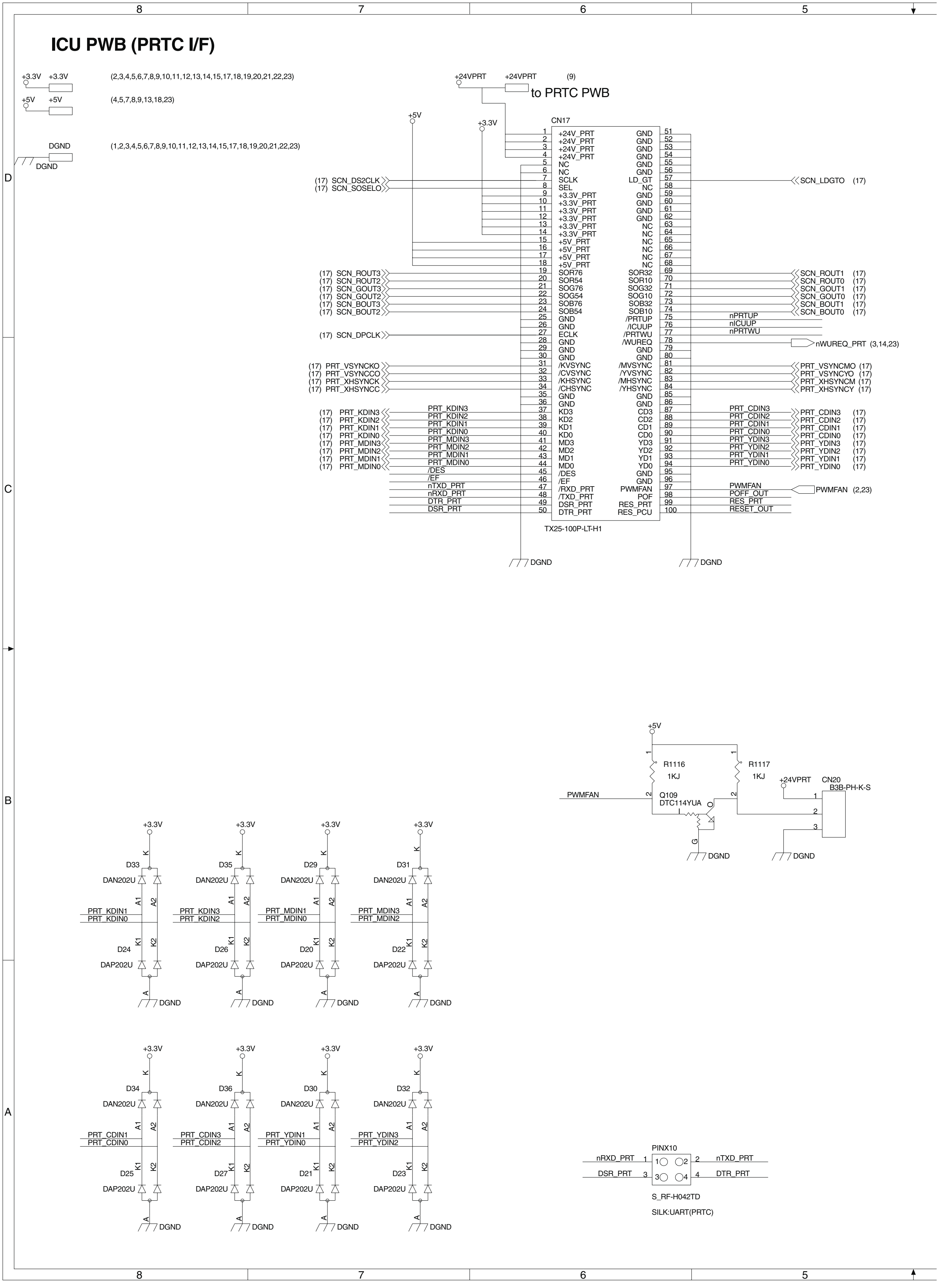


8
7
6
5
D
C
B
A
CONNECTOR(MFP)
CONNECTO
IO-UARTA
+3.3V
D9
DAN202U
K
A2
A1
R492
X_1KJ
(14) nTXD_MFP
Q8
DTC114YUA
IO_TXDA (3)
DGND
R643
1KJ
(14) nRXD_MFP
R648 1KJ
IC66A
74LCX14
R654
47J
IO_RXDA (3)
C305
X_pF
C312
1000pF
R522
X_1KJ
(14) nDTR_MFP
Q9
DTC114YUA
IO_nRTSA (3)
R644
1KJ
(14) nDSR_MFP
R649 1KJ
IC66C
74LCX14
R650
47J
IO_nCTSA (3)
C306
X_pF
C313
1000pF
D8
DAP202U
K2
K1
DGND
(14) ICU
(14)
SIO2(SH-3)
D18
DAN202U
R561
X_1KJ
(14) nTXD_OPE
Q10
DTC114YUA
SH_TXD2 (2)
R752
1KJ
(14) nRXD_OPE
R726 1KJ
IC66E
74LCX14
R728
47J
SH_RXD2 (2)
R901
X_10KJ
C349
X_pF
C338
1000pF
R564
X_1KJ
(14) nDTR_OPE
Q11
DTC114YUA
SH_nRTS2 (2)
R753
1KJ
(14) nDSR_OPE
R727 1KJ
IC66F
74LCX14
R729
47J
SH_nCTS2 (2)
C350
X_pF
C339
1000pF
D13
DAP202U
(14) F
(14) PC
(14) nW
74LCX14
C329
0.1uF

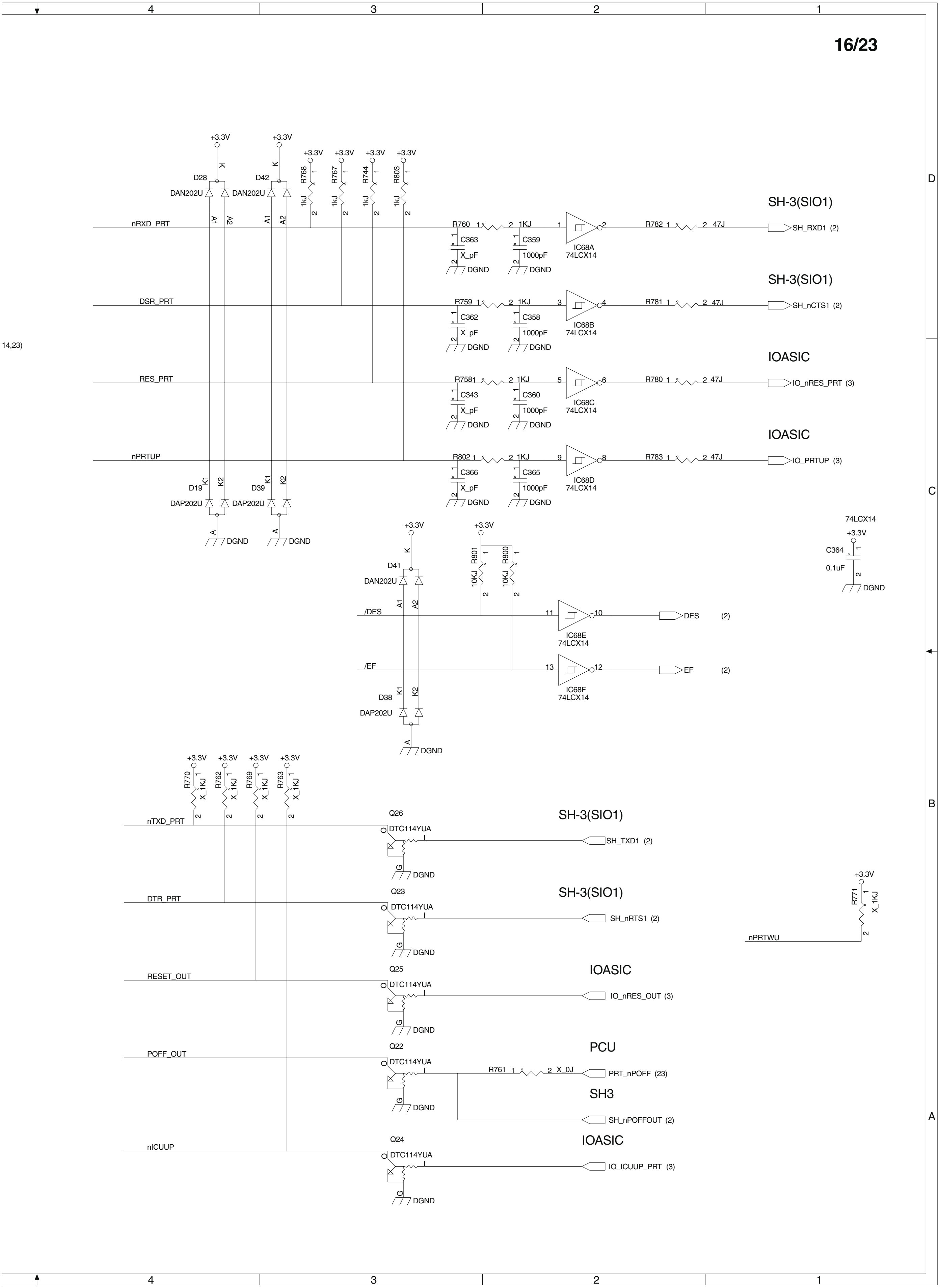
ONNECTOR(MFP)


+3.3V
K
D12
DAN202U
A1
A2
R626
X_1KJ
IOASIC
(14) ICUUP_MFP
Q18
DTC114YUA
ICUUP2 (3)
DGND
R690
1KJ
(14) nMFPUP
R685 1KJ
C331
X_pF
C327
1000pF
IC66B
74LCX14
R653 47J
MFPUP (3)
R632
X_1KJ
(14) nOPEWU
Q20
DTC114YUA
OPEWU (3)
R676
1KJ
(14) nOPEUP
R684 1KJ
C330
X_pF
C332
1000pF
IC66D
74LCX14
R693 47J
OPEUP (3)
D11
DAP202U
K1
K2
A
DGND
IOASIC
R598
X_1KJ
(14) RES_MFP
Q14
DTC114YUA
nRES_MFP (3)
R605
X_1KJ
(14) RES_OPE
Q15
DTC114YUA
nRES_OPE (3)
PCU
R613
X_1KJ
(14) POFF_OUT
Q16
DTC114YUA
MFP_nPOFF (23)
R589
X_1KJ
(14) nWEN_MFP
Q13
DTC114YUA
WEN_MFPOPE (6)
R576
X_1KJ
(14) nWEN_OPE
Q12
DTC114YUA
DGND

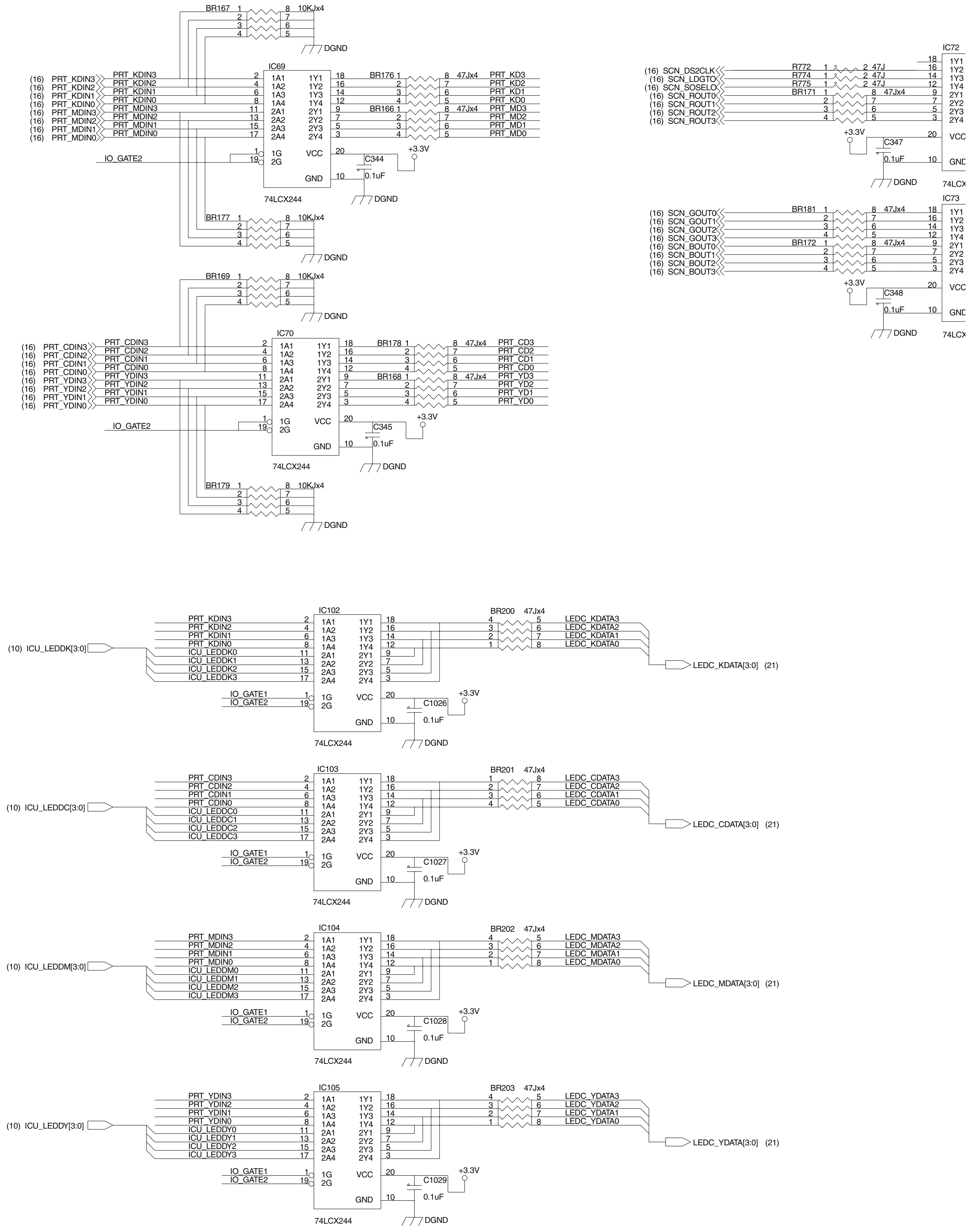
ICU PWB (PRTC I/F)



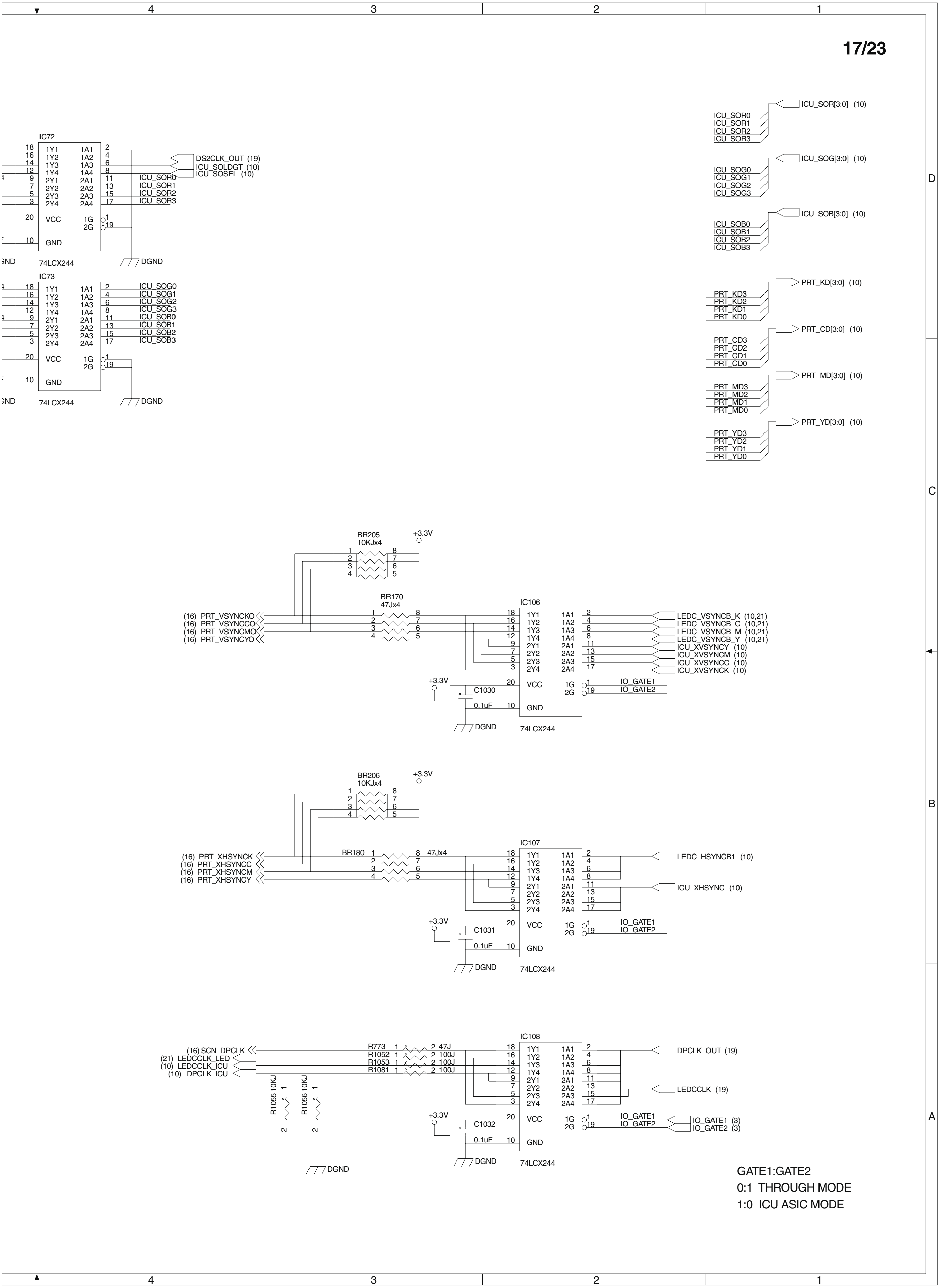
8
7
6
5
D
C
B
A
+3.3V
+3.3V
(2,3,4,5,6,7,8,9,10,11,12,13,14,15,17,18,19,20,21,22,23)
+5V
+5V
(4,5,7,8,9,13,18,23)
DGND
(1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,17,18,19,20,21,22,23)
DGND
+24VPRT
+24VPRT
(9)
to PRTC PWB
+5V
+3.3V
CN17
1 +24V_PRT
2 +24V_PRT
3 +24V_PRT
4 +24V_PRT
5 NC
6 NC
7 SCLK
8 SEL
9 +3.3V_PRT
10 +3.3V_PRT
11 +3.3V_PRT
12 +3.3V_PRT
13 +3.3V_PRT
14 +3.3V_PRT
15 +5V_PRT
16 +5V_PRT
17 +5V_PRT
18 +5V_PRT
19 SOR76
20 SOR54
21 SOG76
22 SOG54
23 SOB76
24 SOB54
25 GND
26 GND
27 ECLK
28 GND
29 GND
30 GND
31 /KVSYNC
32 /CVSYNC
33 /KHSYNC
34 /CHSYNC
35 GND
36 GND
37 KD3
38 KD2
39 KD1
40 KD0
41 MD3
42 MD2
43 MD1
44 MD0
45 /DES
46 /EF
47 /RXD_PRT
48 /TXD_PRT
49 DSR_PRT
50 DTR_PRT
GND 51
GND 52
GND 53
GND 54
GND 55
GND 56
LD_GT 57
NC 58
GND 59
GND 60
GND 61
GND 62
NC 63
NC 64
NC 65
NC 66
NC 67
NC 68
SOR32 69
SOR10 70
SOG32 71
SOG10 72
SOB32 73
SOB10 74
/PRTUP 75
/ICUUP 76
/PRTWU 77
/WUREQ 78
GND 79
GND 80
/MVSYNC 81
/YVSYNC 82
/MHSYNC 83
/YHSYNC 84
GND 85
GND 86
CD3 87
CD2 88
CD1 89
CD0 90
YD3 91
YD2 92
YD1 93
YD0 94
GND 95
GND 96
PWMFAN 97
POF 98
RES_PRT 99
RES_PCU 100
TX25-100P-LT-H1
(17) SCN_DS2CLK
(17) SCN_SOSELO
(17) SCN_ROUT3
(17) SCN_ROUT2
(17) SCN_GOUT3
(17) SCN_GOUT2
(17) SCN_BOUT3
(17) SCN_BOUT2
(17) SCN_DPCLK
(17) PRT_VSYNCKO
(17) PRT_VSYNCCO
(17) PRT_XHSYNCK
(17) PRT_XHSYNCC
(17) PRT_KDIN3
(17) PRT_KDIN2
(17) PRT_KDIN1
(17) PRT_KDIN0
(17) PRT_MDIN3
(17) PRT_MDIN2
(17) PRT_MDIN1
(17) PRT_MDIN0
PRT_KDIN3
PRT_KDIN2
PRT_KDIN1
PRT_KDIN0
PRT_MDIN3
PRT_MDIN2
PRT_MDIN1
PRT_MDIN0
/DES
/EF
nTXD_PRT
nRXD_PRT
DTR_PRT
DSR_PRT
SCN_LDGTO (17)
SCN_ROUT1 (17)
SCN_ROUT0 (17)
SCN_GOUT1 (17)
SCN_GOUT0 (17)
SCN_BOUT1 (17)
SCN_BOUT0 (17)
nPRTUP
nICUUP
nPRTWU
nWUREQ_PRT (3,14,23)
PRT_VSYNCMO (17)
PRT_VSYNCYO (17)
PRT_XHSYNCM (17)
PRT_XHSYNCY (17)
PRT_CDIN3
PRT_CDIN2
PRT_CDIN1
PRT_CDIN0
PRT_YDIN3
PRT_YDIN2
PRT_YDIN1
PRT_YDIN0
PRT_CDIN3 (17)
PRT_CDIN2 (17)
PRT_CDIN1 (17)
PRT_CDIN0 (17)
PRT_YDIN3 (17)
PRT_YDIN2 (17)
PRT_YDIN1 (17)
PRT_YDIN0 (17)
PWMFAN
POFF_OUT
RES_PRT
RESET_OUT
PWMFAN (2,23)
DGND
DGND
+5V
R1116
1KJ
R1117
1KJ
PWMFAN
Q109
DTC114YUA
+24VPRT
CN20
B3B-PH-K-S
1
2
3
DGND
DGND
+3.3V
K
D33
DAN202U
A1
A2
PRT_KDIN1
PRT_KDIN0
K1
K2
D24
DAP202U
A
DGND
D35
PRT_KDIN3
PRT_KDIN2
D26
D29
PRT_MDIN1
PRT_MDIN0
D20
D31
PRT_MDIN3
PRT_MDIN2
D22
D34
PRT_CDIN1
PRT_CDIN0
D25
D36
PRT_CDIN3
PRT_CDIN2
D27
D30
PRT_YDIN1
PRT_YDIN0
D21
D32
PRT_YDIN3
PRT_YDIN2
D23
PINX10
nRXD_PRT 1
2 nTXD_PRT
DSR_PRT 3
4 DTR_PRT
S_RF-H042TD
SILK:UART(PRTC)


16/23
4
3
2
1
D
C
B
A
14,23)
+3.3V
D28
DAN202U
D42
DAN202U
K
A1
A2
R768 1kJ
R767 1kJ
R744 1kJ
R803 1kJ
nRXD_PRT
DSR_PRT
RES_PRT
nPRTUP
R760 1KJ
R759 1KJ
R7581 1KJ
R802 1KJ
C363 X_pF
C362 X_pF
C343 X_pF
C366 X_pF
C359 1000pF
C358 1000pF
C360 1000pF
C365 1000pF
DGND
IC68A 74LCX14
IC68B 74LCX14
IC68C 74LCX14
IC68D 74LCX14
R782 47J
R781 47J
R780 47J
R783 47J
SH-3(SIO1)
SH_RXD1 (2)
SH-3(SIO1)
SH_nCTS1 (2)
IOASIC
IO_nRES_PRT (3)
IOASIC
IO_PRTUP (3)
D19 DAP202U
D39 DAP202U
K1
K2
74LCX14
C364 0.1uF
D41 DAN202U
R801 10KJ
R800 10KJ
/DES
/EF
IC68E 74LCX14
IC68F 74LCX14
DES (2)
EF (2)
D38 DAP202U
R770 X_1KJ
R762 X_1KJ
R769 X_1KJ
R763 X_1KJ
nTXD_PRT
DTR_PRT
RESET_OUT
POFF_OUT
nICUUP
Q26 DTC114YUA
Q23 DTC114YUA
Q25 DTC114YUA
Q22 DTC114YUA
Q24 DTC114YUA
SH-3(SIO1)
SH_TXD1 (2)
SH-3(SIO1)
SH_nRTS1 (2)
IOASIC
IO_nRES_OUT (3)
PCU
R761 X_0J
PRT_nPOFF (23)
SH3
SH_nPOFFOUT (2)
IOASIC
IO_ICUUP_PRT (3)
R771 X_1KJ
nPRTWU

ICU PWB (DATA SELECT)

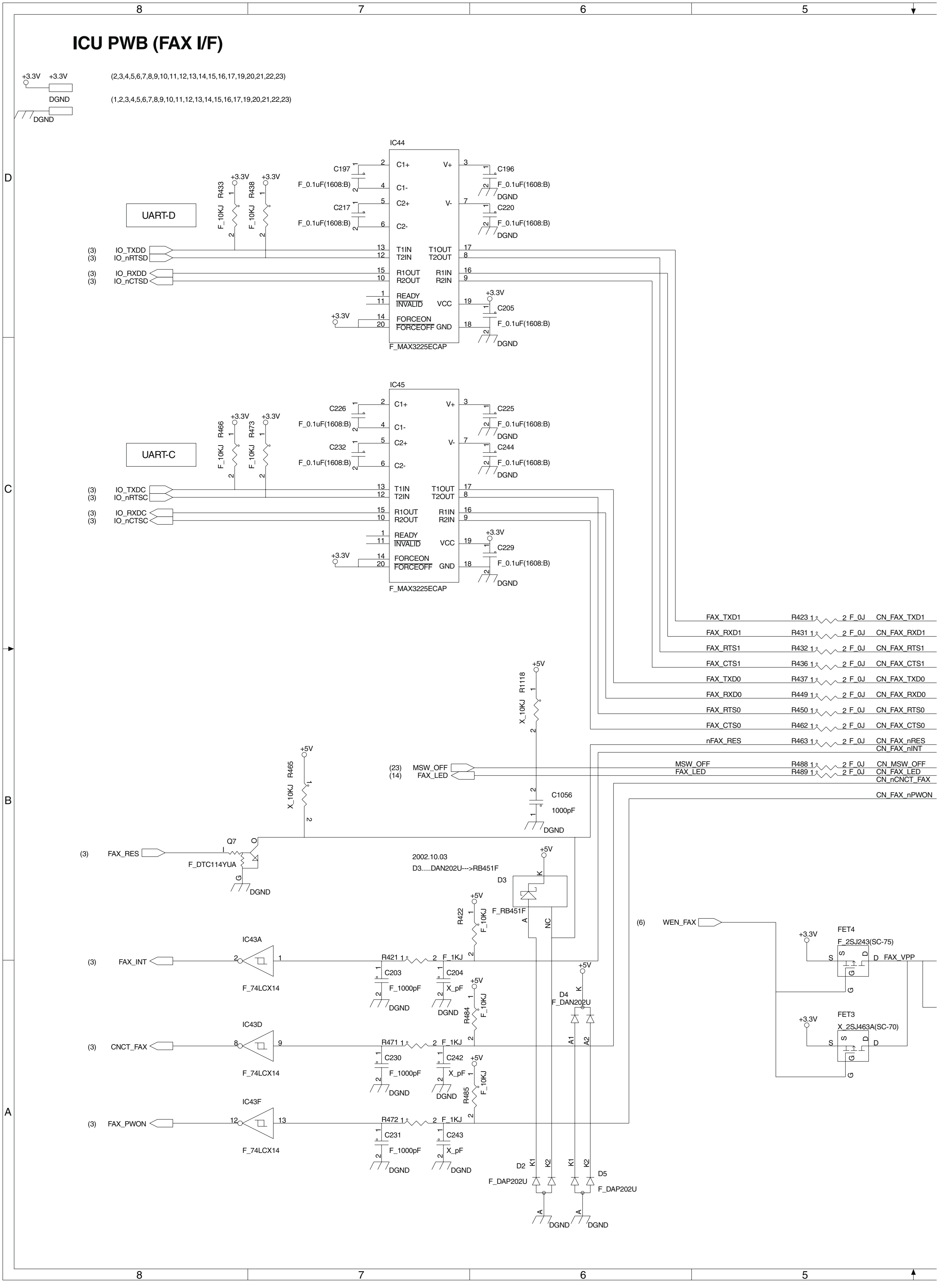


BR167 10KJx4
DGND
IC69
74LCX244
1A1 1A2 1A3 1A4 2A1 2A2 2A3 2A4
1Y1 1Y2 1Y3 1Y4 2Y1 2Y2 2Y3 2Y4
1G 2G VCC GND
(16) PRT_KDIN3
(16) PRT_KDIN2
(16) PRT_KDIN1
(16) PRT_KDIN0
(16) PRT_MDIN3
(16) PRT_MDIN2
(16) PRT_MDIN1
(16) PRT_MDIN0
IO_GATE2
BR176 47Jx4
BR166 47Jx4
PRT_KD3
PRT_KD2
PRT_KD1
PRT_KD0
PRT_MD3
PRT_MD2
PRT_MD1
PRT_MD0
+3.3V
C344
0.1uF
BR177 10KJx4
BR169 10KJx4
IC70
(16) PRT_CDIN3
(16) PRT_CDIN2
(16) PRT_CDIN1
(16) PRT_CDIN0
(16) PRT_YDIN3
(16) PRT_YDIN2
(16) PRT_YDIN1
(16) PRT_YDIN0
BR178 47Jx4
BR168 47Jx4
PRT_CD3
PRT_CD2
PRT_CD1
PRT_CD0
PRT_YD3
PRT_YD2
PRT_YD1
PRT_YD0
C345
BR179 10KJx4
IC72
(16) SCN_DS2CLK
(16) SCN_LDGTO
(16) SCN_SOSELO
(16) SCN_ROUT0
(16) SCN_ROUT1
(16) SCN_ROUT2
(16) SCN_ROUT3
R772 47J
R774 47J
R775 47J
BR171 47Jx4
C347
IC73
(16) SCN_GOUT0
(16) SCN_GOUT1
(16) SCN_GOUT2
(16) SCN_GOUT3
(16) SCN_BOUT0
(16) SCN_BOUT1
(16) SCN_BOUT2
(16) SCN_BOUT3
BR181 47Jx4
BR172 47Jx4
C348
IC102
(10) ICU_LEDDK[3:0]
PRT_KDIN3
PRT_KDIN2
PRT_KDIN1
PRT_KDIN0
ICU_LEDDK0
ICU_LEDDK1
ICU_LEDDK2
ICU_LEDDK3
IO_GATE1
IO_GATE2
BR200 47Jx4
LEDC_KDATA3
LEDC_KDATA2
LEDC_KDATA1
LEDC_KDATA0
LEDC_KDATA[3:0] (21)
C1026
IC103
(10) ICU_LEDDC[3:0]
PRT_CDIN3
PRT_CDIN2
PRT_CDIN1
PRT_CDIN0
ICU_LEDDC0
ICU_LEDDC1
ICU_LEDDC2
ICU_LEDDC3
BR201 47Jx4
LEDC_CDATA3
LEDC_CDATA2
LEDC_CDATA1
LEDC_CDATA0
LEDC_CDATA[3:0] (21)
C1027
IC104
(10) ICU_LEDDM[3:0]
PRT_MDIN3
PRT_MDIN2
PRT_MDIN1
PRT_MDIN0
ICU_LEDDM0
ICU_LEDDM1
ICU_LEDDM2
ICU_LEDDM3
BR202 47Jx4
LEDC_MDATA3
LEDC_MDATA2
LEDC_MDATA1
LEDC_MDATA0
LEDC_MDATA[3:0] (21)
C1028
IC105
(10) ICU_LEDDY[3:0]
PRT_YDIN3
PRT_YDIN2
PRT_YDIN1
PRT_YDIN0
ICU_LEDDY0
ICU_LEDDY1
ICU_LEDDY2
ICU_LEDDY3
BR203 47Jx4
LEDC_YDATA3
LEDC_YDATA2
LEDC_YDATA1
LEDC_YDATA0
LEDC_YDATA[3:0] (21)
C1029


4
3
2
1
D
C
B
A
IC72
1Y1 1Y2 1Y3 1Y4 2Y1 2Y2 2Y3 2Y4
1A1 1A2 1A3 1A4 2A1 2A2 2A3 2A4
VCC
GND
1G
2G
74LCX244
DS2CLK_OUT (19)
ICU_SOLDGT (10)
ICU_SOSEL (10)
ICU_SOR0
ICU_SOR1
ICU_SOR2
ICU_SOR3
DGND
IC73
74LCX244
ICU_SOG0
ICU_SOG1
ICU_SOG2
ICU_SOG3
ICU_SOB0
ICU_SOB1
ICU_SOB2
ICU_SOB3
ICU_SOR[3:0] (10)
ICU_SOG[3:0] (10)
ICU_SOB[3:0] (10)
PRT_KD[3:0] (10)
PRT_KD3
PRT_KD2
PRT_KD1
PRT_KD0
PRT_CD[3:0] (10)
PRT_CD3
PRT_CD2
PRT_CD1
PRT_CD0
PRT_MD[3:0] (10)
PRT_MD3
PRT_MD2
PRT_MD1
PRT_MD0
PRT_YD[3:0] (10)
PRT_YD3
PRT_YD2
PRT_YD1
PRT_YD0
BR205
10KJx4
+3.3V
BR170
47Jx4
IC106
(16) PRT_VSYNCKO
(16) PRT_VSYNCCO
(16) PRT_VSYNCMO
(16) PRT_VSYNCYO
LEDC_VSYNCB_K (10,21)
LEDC_VSYNCB_C (10,21)
LEDC_VSYNCB_M (10,21)
LEDC_VSYNCB_Y (10,21)
ICU_XVSYNCY (10)
ICU_XVSYNCM (10)
ICU_XVSYNCC (10)
ICU_XVSYNCK (10)
C1030
0.1uF
IO_GATE1
IO_GATE2
74LCX244
BR206
10KJx4
BR180
47Jx4
IC107
(16) PRT_XHSYNCK
(16) PRT_XHSYNCC
(16) PRT_XHSYNCM
(16) PRT_XHSYNCY
LEDC_HSYNCB1 (10)
ICU_XHSYNC (10)
C1031
0.1uF
IC108
(16) SCN_DPCLK
(21) LEDCCLK_LED
(10) LEDCCLK_ICU
(10) DPCLK_ICU
R773 47J
R1052 100J
R1053 100J
R1081 100J
R1055 10KJ
R1056 10KJ
DPCLK_OUT (19)
LEDCCLK (19)
IO_GATE1 (3)
IO_GATE2 (3)
C1032
0.1uF
DGND

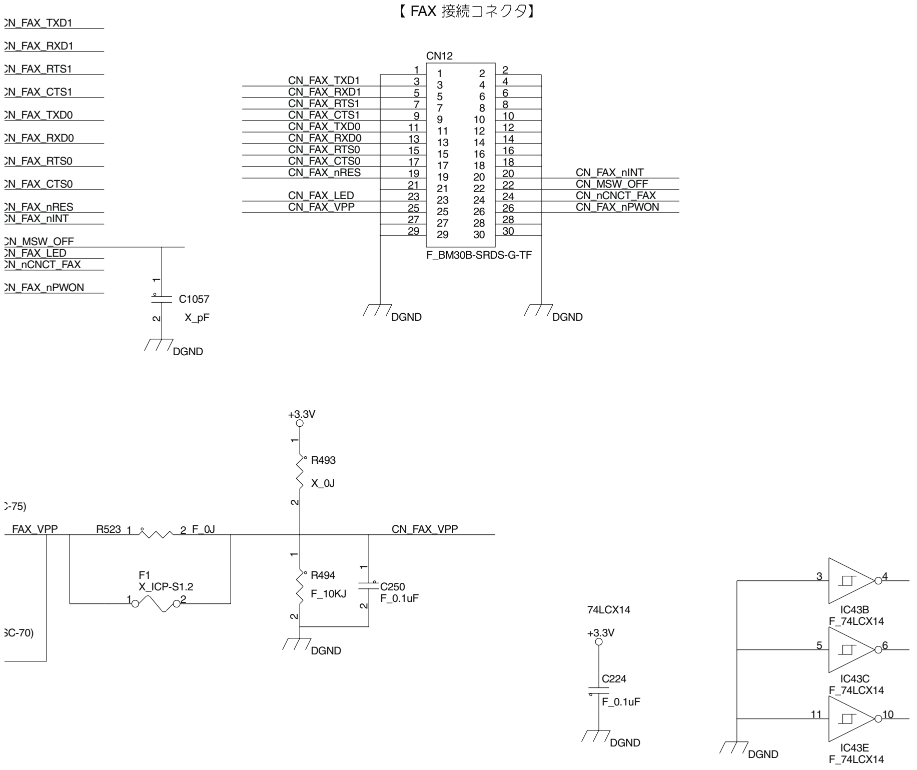
GATE1:GATE2
0:1 THROUGH MODE
1:0 ICU ASIC MODE

ICU PWB (FAX I/F)



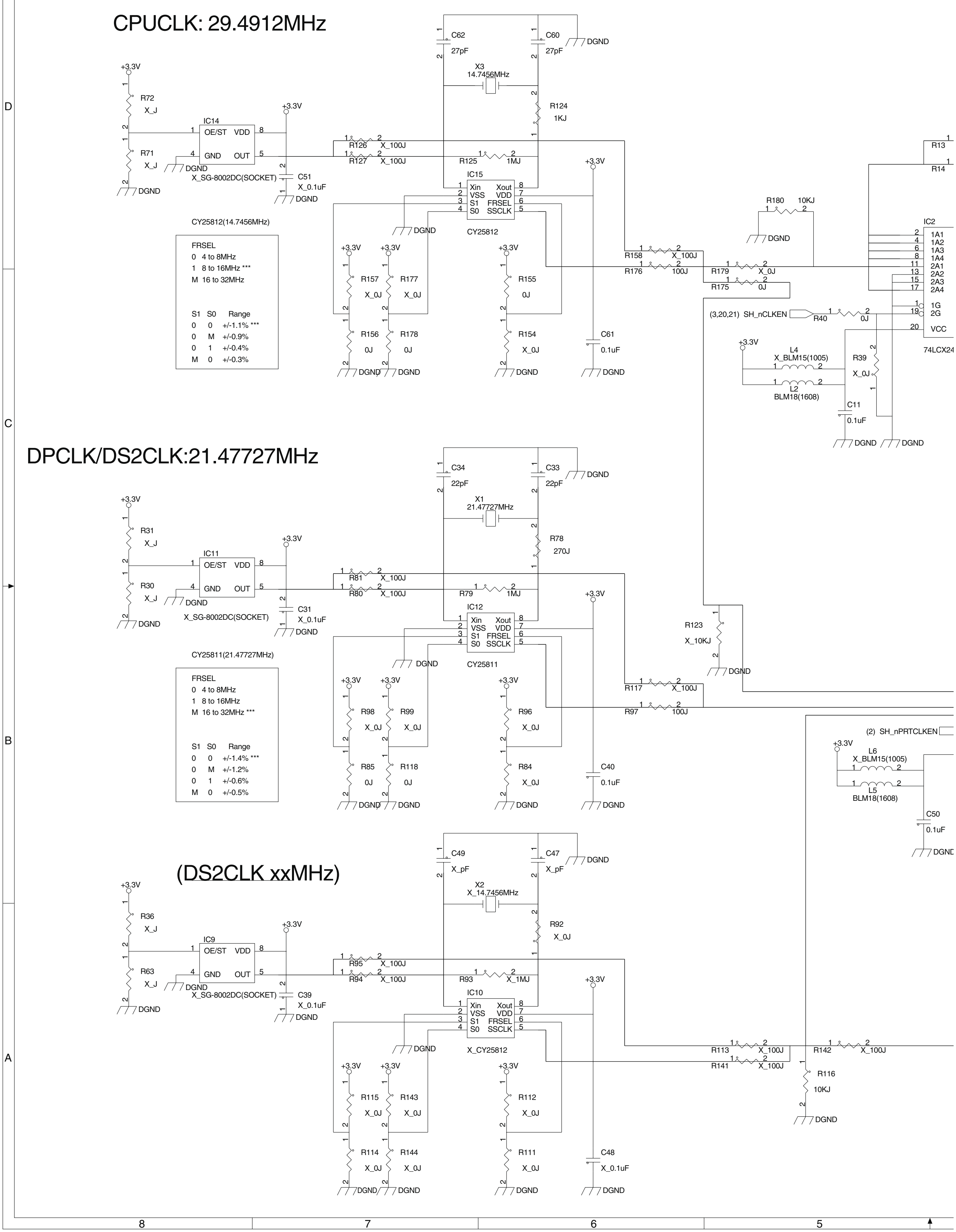
8
7
6
5
D
C
B
A
+3.3V
DGND
(2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,19,20,21,22,23)
(1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,19,20,21,22,23)
IC44
F_MAX3225ECAP
C197
C217
C196
C220
C205
F_0.1uF(1608:B)
C1+
C1-
C2+
C2-
V+
V-
T1IN
T2IN
T1OUT
T2OUT
R1OUT
R2OUT
R1IN
R2IN
READY
INVALID
VCC
FORCEON
FORCEOFF
GND
R433
R438
F_10KJ
UART-D
(3) IO_TXDD
(3) IO_nRTSD
(3) IO_RXDD
(3) IO_nCTSD
IC45
C226
C232
C225
C244
C229
R466
R473
UART-C
(3) IO_TXDC
(3) IO_nRTSC
(3) IO_RXDC
(3) IO_nCTSC
FAX_TXD1
FAX_RXD1
FAX_RTS1
FAX_CTS1
FAX_TXD0
FAX_RXD0
FAX_RTS0
FAX_CTS0
nFAX_RES
R423
R431
R432
R436
R437
R449
R450
R462
R463
F_0J
CN_FAX_TXD1
CN_FAX_RXD1
CN_FAX_RTS1
CN_FAX_CTS1
CN_FAX_TXD0
CN_FAX_RXD0
CN_FAX_RTS0
CN_FAX_CTS0
CN_FAX_nRES
CN_FAX_nINT
MSW_OFF
FAX_LED
R488
R489
CN_MSW_OFF
CN_FAX_LED
CN_nCNCT_FAX
CN_FAX_nPWON
(23) MSW_OFF
(14) FAX_LED
+5V
R1118
X_10KJ
C1056
1000pF
R465
Q7
F_DTC114YUA
(3) FAX_RES
2002.10.03
D3.....DAN202U--->RB451F
D3
F_RB451F
NC
R422
F_10KJ
IC43A
F_74LCX14
(3) FAX_INT
R421
F_1KJ
C203
F_1000pF
C204
X_pF
D4
F_DAN202U
R484
IC43D
(3) CNCT_FAX
R471
C230
C242
R485
IC43F
(3) FAX_PWON
R472
C231
C243
D2
F_DAP202U
D5
K1
K2
A1
A2
(6) WEN_FAX
FET4
F_2SJ243(SC-75)
FAX_VPP
FET3
X_2SJ463A(SC-70)
S
D
G

【 FAX 接続コネクタ】

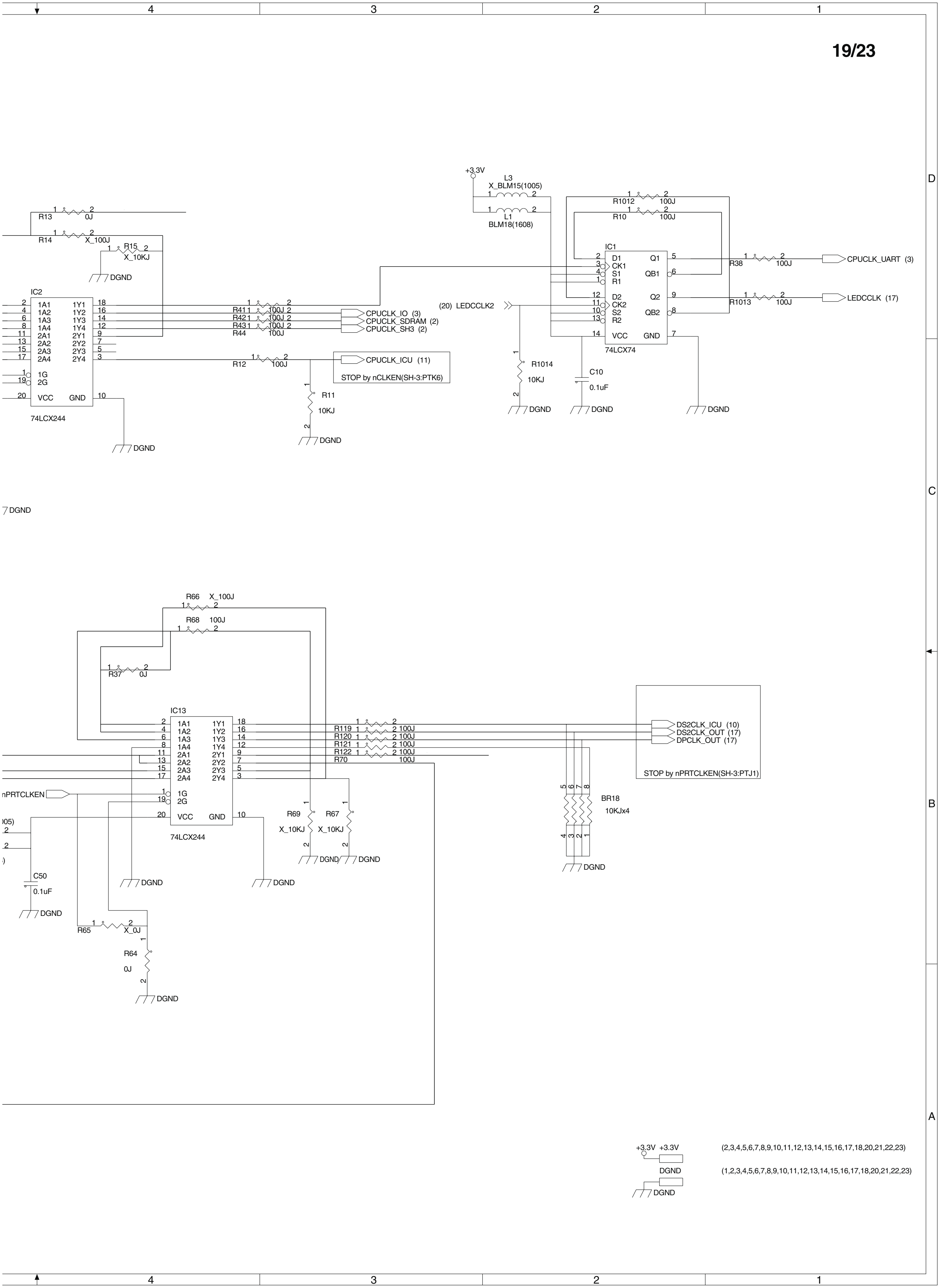


CN_FAX_TXD1
CN_FAX_RXD1
CN_FAX_RTS1
CN_FAX_CTS1
CN_FAX_TXD0
CN_FAX_RXD0
CN_FAX_RTS0
CN_FAX_CTS0
CN_FAX_nRES
CN_FAX_nINT
CN_MSW_OFF
CN_FAX_LED
CN_nCNCT_FAX
CN_FAX_nPWON
C1057
X_pF
DGND
CN12
F_BM30B-SRDS-G-TF
CN_FAX_VPP
CN_FAX_nINT
CN_MSW_OFF
CN_nCNCT_FAX
CN_FAX_nPWON
+3.3V
R493
X_0J
FAX_VPP
R523
F_0J
F1
X_ICP-S1.2
R494
F_10KJ
C250
F_0.1uF
74LCX14
C224
F_0.1uF
IC43B
F_74LCX14
IC43C
F_74LCX14
IC43E
F_74LCX14

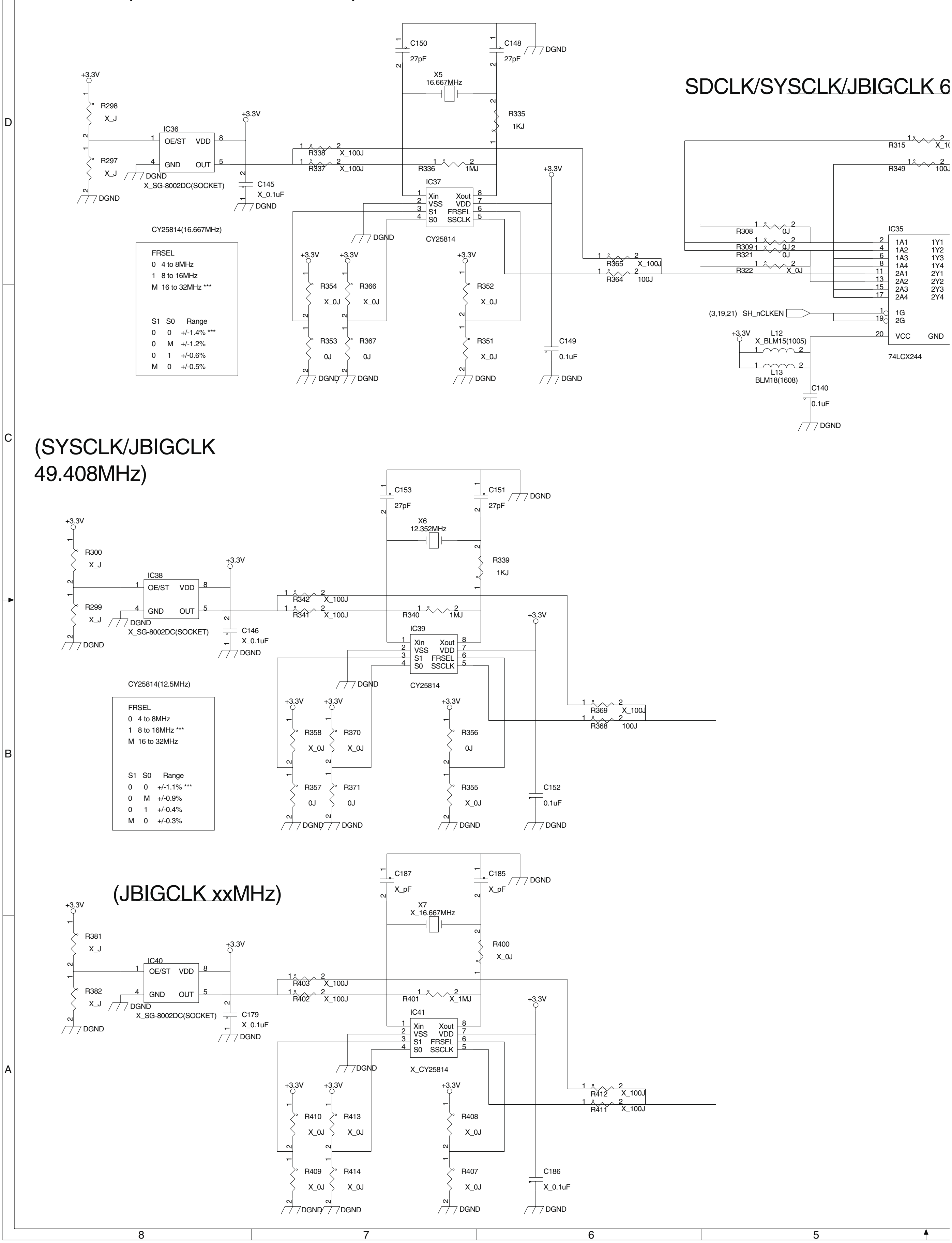
ICU PWB (CPUCLK/DPCLK/DS2CLK)

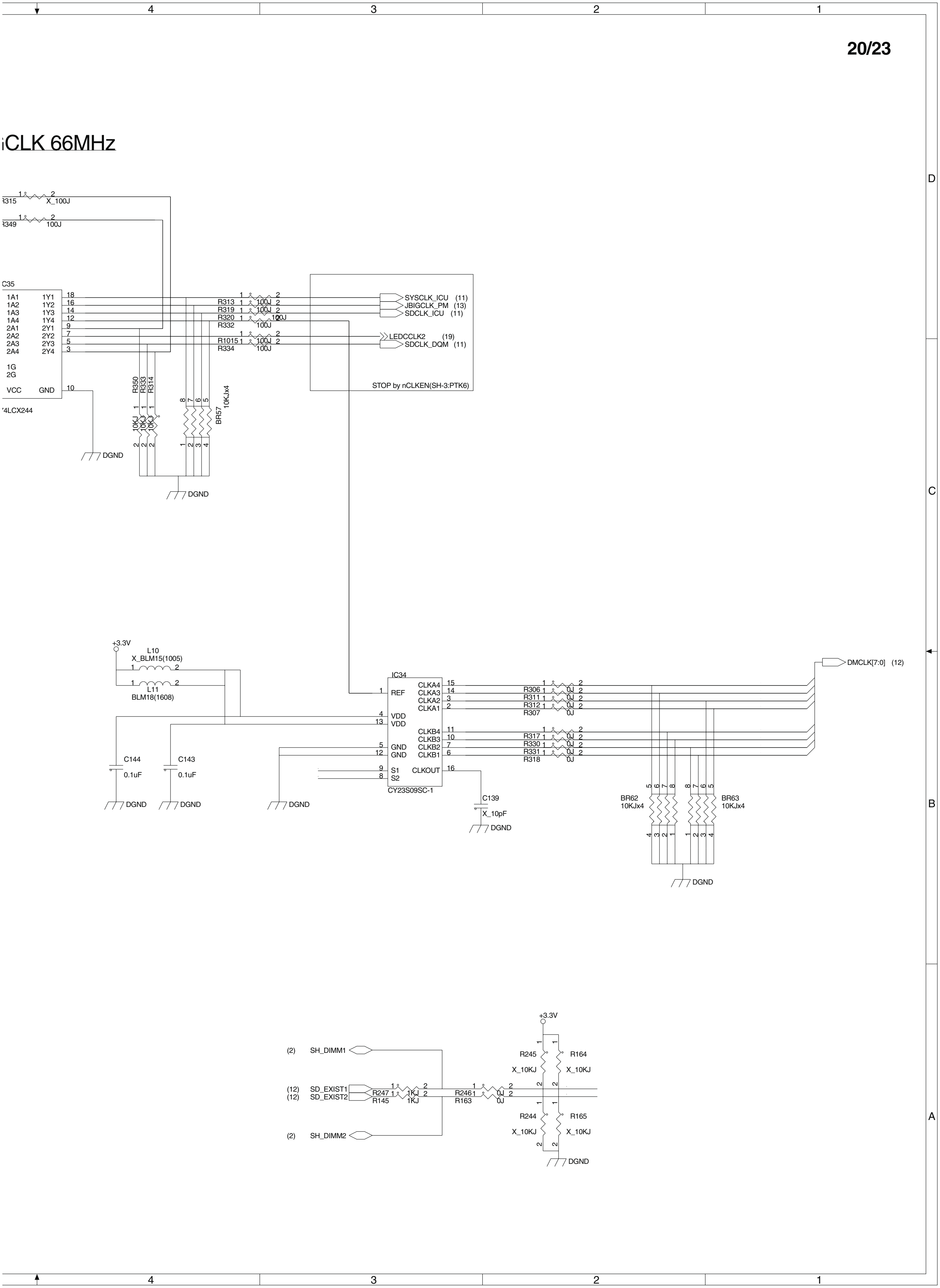


CPUCLK: 29.4912MHz
DPCLK/DS2CLK:21.47727MHz
(DS2CLK xxMHz)
8
7
6
5
D
C
B
A
IC14
OE/ST VDD
GND OUT
X_SG-8002DC(SOCKET)
IC15
Xin Xout
VSS VDD
S1 FRSEL
S0 SSCLK
CY25812
X3
14.7456MHz
C62 27pF
C60 27pF
R124 1KJ
R126 X_100J
R127 X_100J
R125 1MJ
R72 X_J
R71 X_J
C51 X_0.1uF
CY25812(14.7456MHz)
FRSEL
0 4 to 8MHz
1 8 to 16MHz ***
M 16 to 32MHz
S1 S0 Range
0 0 +/-1.1% ***
0 M +/-0.9%
0 1 +/-0.4%
M 0 +/-0.3%
R157 X_0J
R177 X_0J
R155 0J
R156 0J
R178 0J
R154 X_0J
C61 0.1uF
R158 X_100J
R176 100J
R180 10KJ
R179 X_0J
R175 0J
R13
R14
IC2
1A1
1A2
1A3
1A4
2A1
2A2
2A3
2A4
1G
2G
VCC
74LCX24
(3,20,21) SH_nCLKEN
R40 0J
L4 X_BLM15(1005)
L2 BLM18(1608)
R39 X_0J
C11 0.1uF
IC11
X1
21.47727MHz
C34 22pF
C33 22pF
R78 270J
R81 X_100J
R80 X_100J
R79 1MJ
R31 X_J
R30 X_J
C31 X_0.1uF
IC12
CY25811
CY25811(21.47727MHz)
FRSEL
0 4 to 8MHz
1 8 to 16MHz
M 16 to 32MHz ***
S1 S0 Range
0 0 +/-1.4% ***
0 M +/-1.2%
0 1 +/-0.6%
M 0 +/-0.5%
R98 X_0J
R99 X_0J
R96 X_0J
R85 0J
R118 0J
R84 X_0J
C40 0.1uF
R123 X_10KJ
R117 X_100J
R97 100J
(2) SH_nPRTCLKEN
L6 X_BLM15(1005)
L5 BLM18(1608)
C50 0.1uF
IC9
X2
X_14.7456MHz
C49 X_pF
C47 X_pF
R92 X_0J
R95 X_100J
R94 X_100J
R93 X_1MJ
R36 X_J
R63 X_J
C39 X_0.1uF
IC10
X_CY25812
R115 X_0J
R143 X_0J
R112 X_0J
R114 X_0J
R144 X_0J
R111 X_0J
C48 X_0.1uF
R113 X_100J
R141 X_100J
R142 X_100J
R116 10KJ
+3.3V
DGND

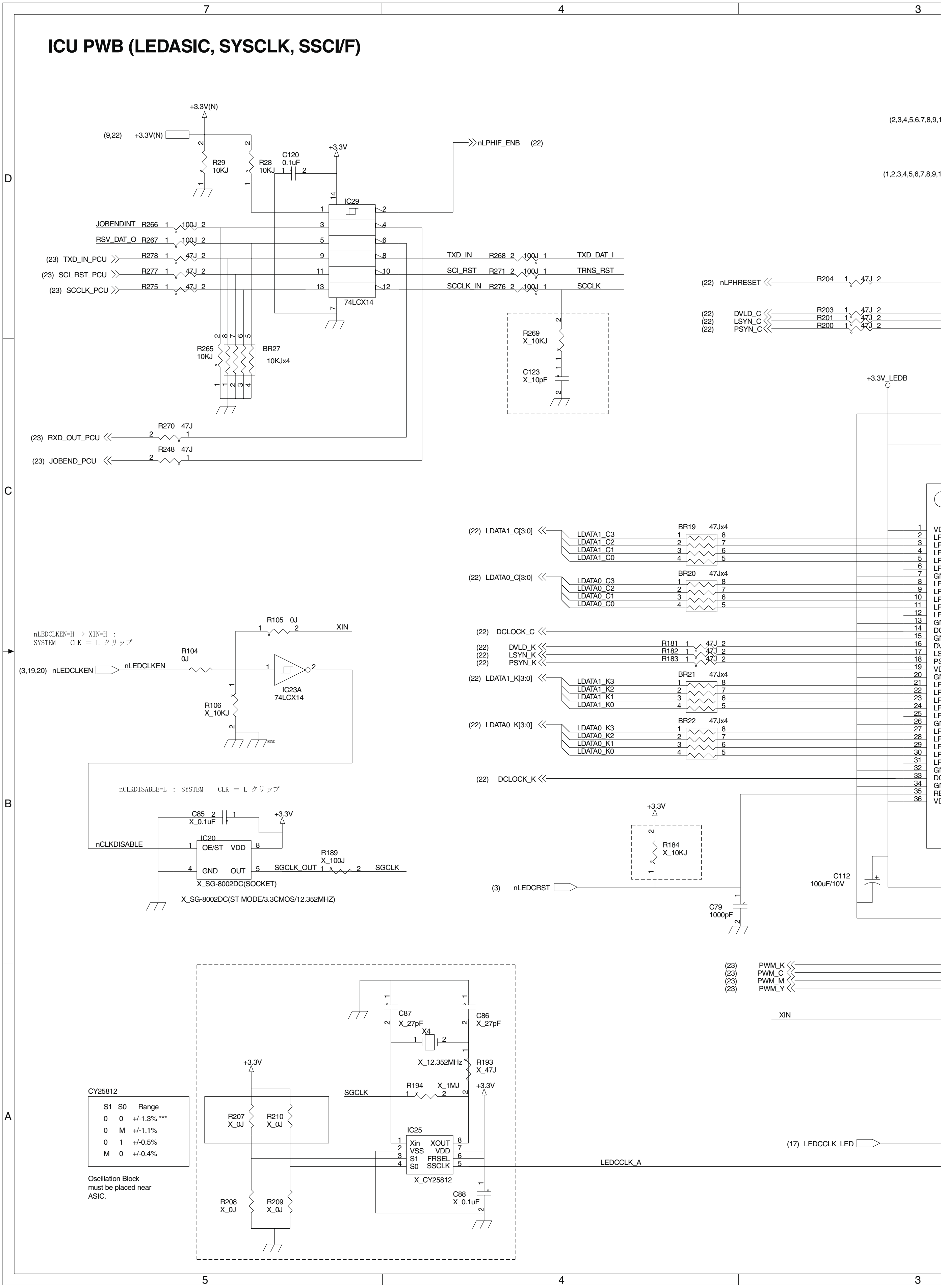

4
3
2
1
D
C
B
A
+3.3V
L3
X_BLM15(1005)
L1
BLM18(1608)
R1012 100J
R10 100J
IC1
D1
CK1
S1
R1
Q1
QB1
D2
CK2
S2
R2
Q2
QB2
VCC
GND
74LCX74
R38 100J
CPUCLK_UART (3)
R1013 100J
LEDCCLK (17)
(20) LEDCCLK2
R1014
10KJ
C10
0.1uF
DGND
R13 0J
R14 X_100J
R15 X_10KJ
IC2
1A1
1A2
1A3
1A4
2A1
2A2
2A3
2A4
1Y1
1Y2
1Y3
1Y4
2Y1
2Y2
2Y3
2Y4
1G
2G
VCC
GND
74LCX244
R41 100J
R42 100J
R43 100J
R44 100J
CPUCLK_IO (3)
CPUCLK_SDRAM (2)
CPUCLK_SH3 (2)
R12 100J
CPUCLK_ICU (11)
STOP by nCLKEN(SH-3:PTK6)
R11
10KJ
R66 X_100J
R68 100J
R37 0J
IC13
74LCX244
R119 100J
R120 100J
R121 100J
R122 100J
R70 100J
DS2CLK_ICU (10)
DS2CLK_OUT (17)
DPCLK_OUT (17)
STOP by nPRTCLKEN(SH-3:PTJ1)
nPRTCLKEN
R69 X_10KJ
R67 X_10KJ
BR18
10KJx4
C50
0.1uF
R65 X_0J
R64
0J
+3.3V +3.3V
(2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,20,21,22,23)
DGND
(1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,20,21,22,23)

ICU PWB (SDCLK/SYSCLK/JBIGCLK)


SDCLK/SYSCLK/JBIGCLK 6
(SYSCLK/JBIGCLK
49.408MHz)
(JBIGCLK xxMHz)
8
7
6
5
D
C
B
A
+3.3V
R298
X_J
R297
X_J
DGND
IC36
OE/ST
VDD
GND
OUT
X_SG-8002DC(SOCKET)
C145
X_0.1uF
C150
27pF
C148
27pF
X5
16.667MHz
R335
1KJ
R338
X_100J
R337
X_100J
R336
1MJ
IC37
Xin
Xout
VSS
VDD
S1
FRSEL
S0
SSCLK
CY25814
CY25814(16.667MHz)
FRSEL
0 4 to 8MHz
1 8 to 16MHz
M 16 to 32MHz ***
S1 S0 Range
0 0 +/-1.4% ***
0 M +/-1.2%
0 1 +/-0.6%
M 0 +/-0.5%
R354
X_0J
R366
X_0J
R353
0J
R367
0J
R352
X_0J
R351
X_0J
C149
0.1uF
R365
X_100J
R364
100J
R315
R349
R308
0J
R309
0J
R321
0J
R322
X_0J
IC35
1A1
1A2
1A3
1A4
2A1
2A2
2A3
2A4
1Y1
1Y2
1Y3
1Y4
2Y1
2Y2
2Y3
2Y4
1G
2G
VCC
GND
74LCX244
(3,19,21) SH_nCLKEN
L12
X_BLM15(1005)
L13
BLM18(1608)
C140
0.1uF
C153
27pF
C151
27pF
X6
12.352MHz
R339
1KJ
R300
X_J
R299
X_J
IC38
X_SG-8002DC(SOCKET)
C146
X_0.1uF
R342
X_100J
R341
X_100J
R340
1MJ
IC39
CY25814
CY25814(12.5MHz)
FRSEL
0 4 to 8MHz
1 8 to 16MHz ***
M 16 to 32MHz
S1 S0 Range
0 0 +/-1.1% ***
0 M +/-0.9%
0 1 +/-0.4%
M 0 +/-0.3%
R358
X_0J
R370
X_0J
R357
0J
R371
0J
R356
0J
R355
X_0J
C152
0.1uF
R369
X_100J
R368
100J
C187
X_pF
C185
X_pF
X7
X_16.667MHz
R400
X_0J
R381
X_J
R382
X_J
IC40
X_SG-8002DC(SOCKET)
C179
X_0.1uF
R403
X_100J
R402
X_100J
R401
X_1MJ
IC41
X_CY25814
R410
X_0J
R413
X_0J
R409
X_0J
R414
X_0J
R408
X_0J
R407
X_0J
C186
X_0.1uF
R412
X_100J
R411
X_100J


4
3
2
1
20/23
CLK 66MHz
D
C
B
A
R315
X_100J
R349
100J
C35
1A1 1Y1 18
1A2 1Y2 16
1A3 1Y3 14
1A4 1Y4 12
2A1 2Y1 9
2A2 2Y2 7
2A3 2Y3 5
2A4 2Y4 3
1G
2G
VCC GND 10
74LCX244
DGND
R350
R333
R314
10KJ
BR57
10KJx4
R313 100J
R319 100J
R320 100J
R332 100J
R1015 100J
R334 100J
SYSCLK_ICU (11)
JBIGCLK_PM (13)
SDCLK_ICU (11)
LEDCCLK2 (19)
SDCLK_DQM (11)
STOP by nCLKEN(SH-3:PTK6)
+3.3V
L10
X_BLM15(1005)
L11
BLM18(1608)
C144
0.1uF
C143
0.1uF
IC34
REF
VDD
VDD
GND
GND
S1
S2
CLKA4
CLKA3
CLKA2
CLKA1
CLKB4
CLKB3
CLKB2
CLKB1
CLKOUT
CY23S09SC-1
C139
X_10pF
R306 0J
R311 0J
R312 0J
R307 0J
R317 0J
R330 0J
R331 0J
R318 0J
DMCLK[7:0] (12)
BR62
10KJx4
BR63
10KJx4
+3.3V
R245
X_10KJ
R164
X_10KJ
R244
X_10KJ
R165
X_10KJ
(2) SH_DIMM1
(12) SD_EXIST1
(12) SD_EXIST2
(2) SH_DIMM2
R247 1KJ
R145 1KJ
R246 0J
R163 0J
DGND

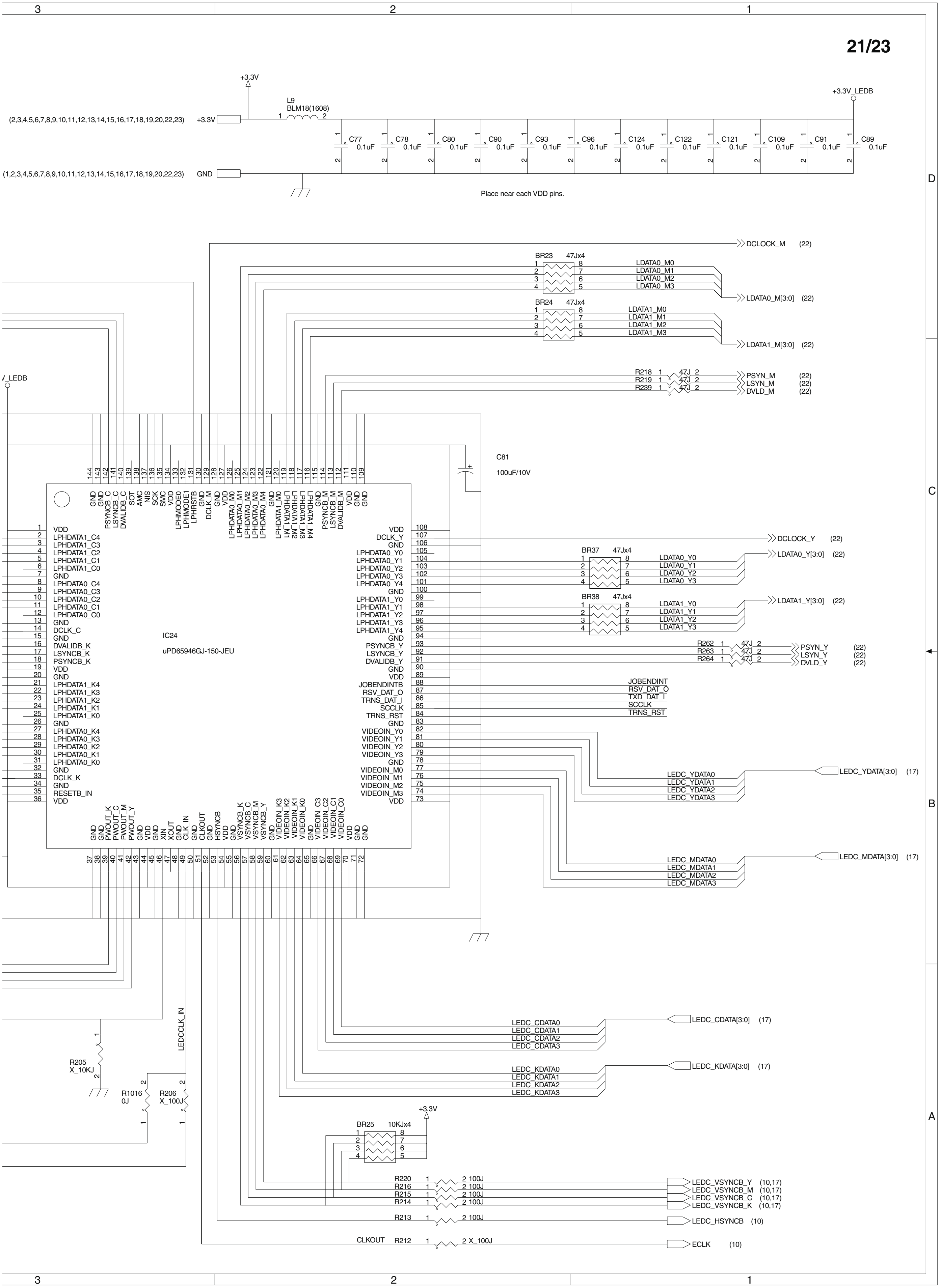
ICU PWB (LEDASIC, SYSCLK, SSCI/F)


7
4
3
D
C
B
A
5
4
3
+3.3V(N)
(9,22) +3.3V(N)
R29 10KJ
R28 10KJ
C120 0.1uF
+3.3V
nLPHIF_ENB (22)
IC29
74LCX14
JOBENDINT R266 1 100J 2
RSV_DAT_O R267 1 100J 2
(23) TXD_IN_PCU R278 1 47J 2
(23) SCI_RST_PCU R277 1 47J 2
(23) SCCLK_PCU R275 1 47J 2
TXD_IN R268 2 100J 1 TXD_DAT_I
SCI_RST R271 2 100J 1 TRNS_RST
SCCLK_IN R276 2 100J 1 SCCLK
R269 X_10KJ
C123 X_10pF
R265 10KJ
BR27 10KJx4
(23) RXD_OUT_PCU R270 47J
(23) JOBEND_PCU R248 47J
(2,3,4,5,6,7,8,9,1
(1,2,3,4,5,6,7,8,9,1
(22) nLPHRESET R204 1 47J 2
(22) DVLD_C R203 1 47J 2
(22) LSYN_C R201 1 47J 2
(22) PSYN_C R200 1 47J 2
+3.3V_LEDB
(22) LDATA1_C[3:0]
LDATA1_C3
LDATA1_C2
LDATA1_C1
LDATA1_C0
BR19 47Jx4
(22) LDATA0_C[3:0]
LDATA0_C3
LDATA0_C2
LDATA0_C1
LDATA0_C0
BR20 47Jx4
(22) DCLOCK_C
(22) DVLD_K R181 1 47J 2
(22) LSYN_K R182 1 47J 2
(22) PSYN_K R183 1 47J 2
(22) LDATA1_K[3:0]
LDATA1_K3
LDATA1_K2
LDATA1_K1
LDATA1_K0
BR21 47Jx4
(22) LDATA0_K[3:0]
LDATA0_K3
LDATA0_K2
LDATA0_K1
LDATA0_K0
BR22 47Jx4
(22) DCLOCK_K
VI
LI
GI
DC
DV
LS
PS
RE
+3.3V
R184 X_10KJ
(3) nLEDCRST
C79 1000pF
C112 100uF/10V
nLEDCLKEN=H -> XIN=H :
SYSTEM CLK = L クリップ
R105 0J
XIN
R104 0J
(3,19,20) nLEDCLKEN
nLEDCLKEN
IC23A 74LCX14
R106 X_10KJ
DGND
nCLKDISABLE=L : SYSTEM CLK = L クリップ
C85 X_0.1uF
+3.3V
IC20
OE/ST VDD
GND OUT
nCLKDISABLE
X_SG-8002DC(SOCKET)
R189 X_100J
SGCLK_OUT
SGCLK
X_SG-8002DC(ST MODE/3.3CMOS/12.352MHZ)
(23) PWM_K
(23) PWM_C
(23) PWM_M
(23) PWM_Y
XIN
C87 X_27pF
C86 X_27pF
X4
X_12.352MHz
R193 X_47J
SGCLK
R194 X_1MJ
+3.3V
+3.3V
R207 X_0J
R210 X_0J
IC25
Xin XOUT
VSS VDD
S1 FRSEL
S0 SSCLK
X_CY25812
C88 X_0.1uF
R208 X_0J
R209 X_0J
LEDCCLK_A
(17) LEDCCLK_LED

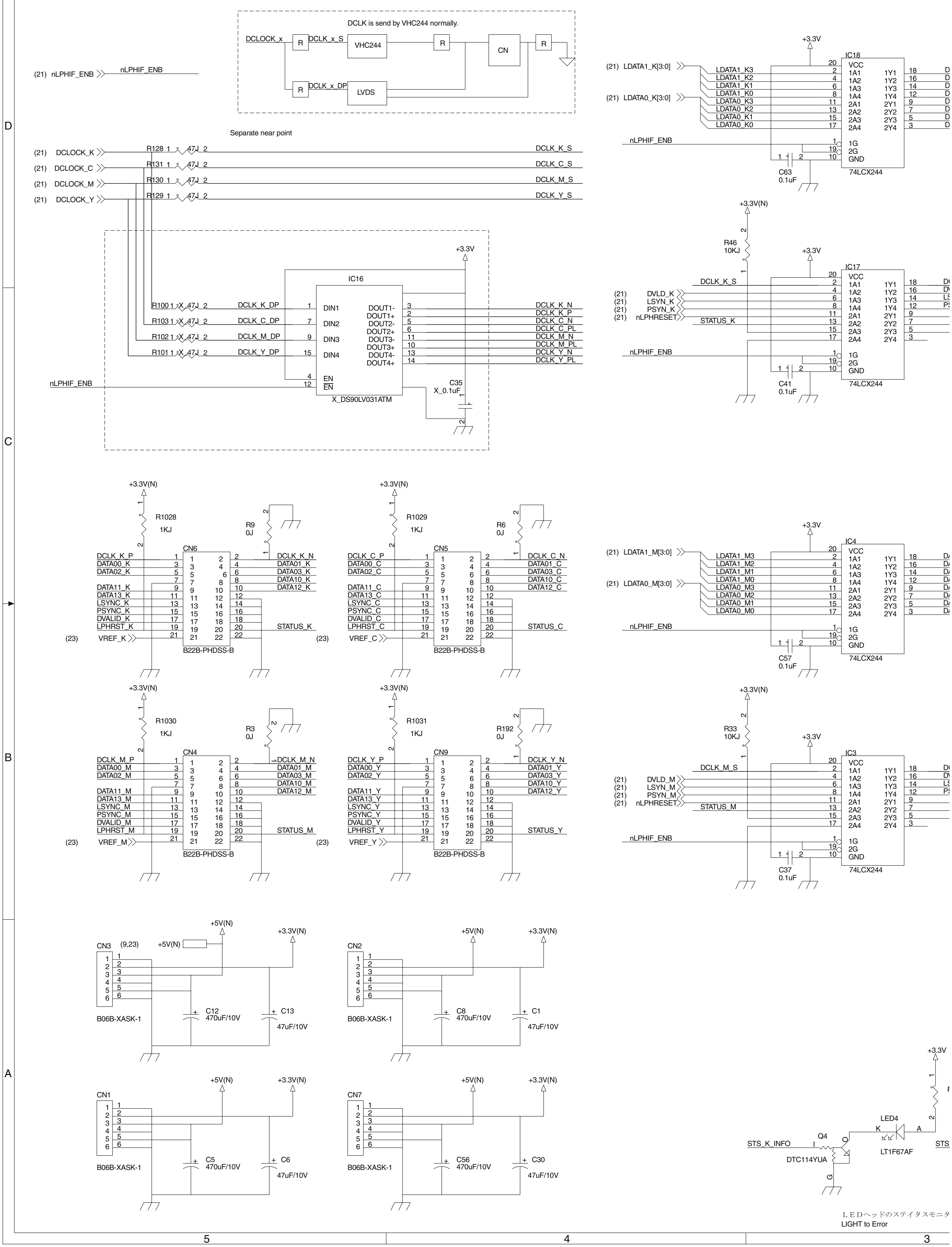
CY25812

S1	S0	Range
0	0	+/-1.3% ***
0	M	+/-1.1%
0	1	+/-0.5%
M	0	+/-0.4%

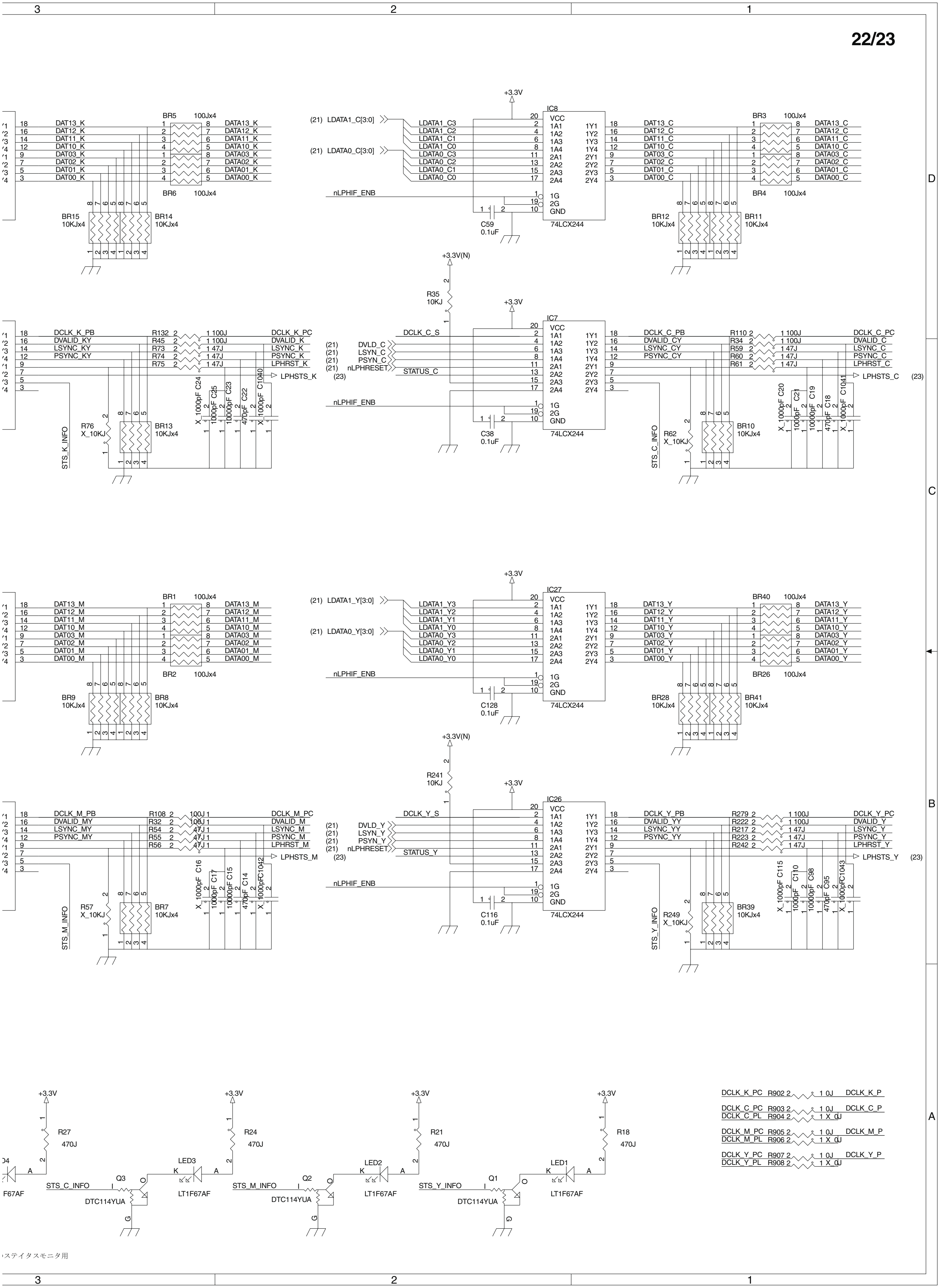
Oscillation Block
must be placed near
ASIC.


3
2
1
D
C
B
A
+3.3V
L9
BLM18(1608)
+3.3V_LEDB
(2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,22,23) +3.3V
(1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,22,23) GND
C77 0.1uF
C78 0.1uF
C80 0.1uF
C90 0.1uF
C93 0.1uF
C96 0.1uF
C124 0.1uF
C122 0.1uF
C121 0.1uF
C109 0.1uF
C91 0.1uF
C89 0.1uF
Place near each VDD pins.
DCLOCK_M (22)
BR23 47Jx4
LDATA0_M0
LDATA0_M1
LDATA0_M2
LDATA0_M3
LDATA0_M[3:0] (22)
BR24 47Jx4
LDATA1_M0
LDATA1_M1
LDATA1_M2
LDATA1_M3
LDATA1_M[3:0] (22)
R218 47J
R219 47J
R239 47J
PSYN_M (22)
LSYN_M (22)
DVLD_M (22)
/_LEDB
C81
100uF/10V
IC24
uPD65946GJ-150-JEU
GND
GND
PSYNCB_C
LSYNCB_C
DVALIDB_C
SOT
AMC
NIS
SCK
SMC
VDD
LPHMODE0
LPHMODE1
LPHRSTB
GND
DCLK_M
GND
VDD
LPHDATA0_M0
LPHDATA0_M1
LPHDATA0_M2
LPHDATA0_M3
LPHDATA0_M4
GND
LPHDATA1_M0
LPHDATA1_M1
LPHDATA1_M2
LPHDATA1_M3
LPHDATA1_M4
GND
PSYNCB_M
LSYNCB_M
DVALIDB_M
VDD
GND
GND
VDD
LPHDATA1_C4
LPHDATA1_C3
LPHDATA1_C2
LPHDATA1_C1
LPHDATA1_C0
GND
LPHDATA0_C4
LPHDATA0_C3
LPHDATA0_C2
LPHDATA0_C1
LPHDATA0_C0
GND
DCLK_C
GND
DVALIDB_K
LSYNCB_K
PSYNCB_K
VDD
GND
LPHDATA1_K4
LPHDATA1_K3
LPHDATA1_K2
LPHDATA1_K1
LPHDATA1_K0
GND
LPHDATA0_K4
LPHDATA0_K3
LPHDATA0_K2
LPHDATA0_K1
LPHDATA0_K0
GND
DCLK_K
GND
RESETB_IN
VDD
VDD
DCLK_Y
GND
LPHDATA0_Y0
LPHDATA0_Y1
LPHDATA0_Y2
LPHDATA0_Y3
LPHDATA0_Y4
GND
LPHDATA1_Y0
LPHDATA1_Y1
LPHDATA1_Y2
LPHDATA1_Y3
LPHDATA1_Y4
GND
PSYNCB_Y
LSYNCB_Y
DVALIDB_Y
GND
VDD
JOBENDINTB
RSV_DAT_O
TRNS_DAT_I
SCCLK
TRNS_RST
GND
VIDEOIN_Y0
VIDEOIN_Y1
VIDEOIN_Y2
VIDEOIN_Y3
GND
VIDEOIN_M0
VIDEOIN_M1
VIDEOIN_M2
VIDEOIN_M3
VDD
GND
GND
PWOUT_K
PWOUT_C
PWOUT_M
PWOUT_Y
GND
VDD
GND
XIN
XOUT
GND
CLK_IN
GND
CLKOUT
GND
HSYNCB
VDD
GND
VSYNCB_K
VSYNCB_C
VSYNCB_M
VSYNCB_Y
GND
VIDEOIN_K3
VIDEOIN_K2
VIDEOIN_K1
VIDEOIN_K0
GND
VIDEOIN_C3
VIDEOIN_C2
VIDEOIN_C1
VIDEOIN_C0
VDD
GND
GND
DCLOCK_Y (22)
BR37 47Jx4
LDATA0_Y0
LDATA0_Y1
LDATA0_Y2
LDATA0_Y3
LDATA0_Y[3:0] (22)
BR38 47Jx4
LDATA1_Y0
LDATA1_Y1
LDATA1_Y2
LDATA1_Y3
LDATA1_Y[3:0] (22)
R262 47J
R263 47J
R264 47J
PSYN_Y (22)
LSYN_Y (22)
DVLD_Y (22)
JOBENDINT
RSV_DAT_O
TXD_DAT_I
SCCLK
TRNS_RST
LEDC_YDATA0
LEDC_YDATA1
LEDC_YDATA2
LEDC_YDATA3
LEDC_YDATA[3:0] (17)
LEDC_MDATA0
LEDC_MDATA1
LEDC_MDATA2
LEDC_MDATA3
LEDC_MDATA[3:0] (17)
LEDC_CDATA0
LEDC_CDATA1
LEDC_CDATA2
LEDC_CDATA3
LEDC_CDATA[3:0] (17)
LEDC_KDATA0
LEDC_KDATA1
LEDC_KDATA2
LEDC_KDATA3
LEDC_KDATA[3:0] (17)
LEDCCLK_IN
R205
X_10KJ
R1016
0J
R206
X_100J
+3.3V
BR25 10KJx4
R220 100J
R216 100J
R215 100J
R214 100J
LEDC_VSYNCB_Y (10,17)
LEDC_VSYNCB_M (10,17)
LEDC_VSYNCB_C (10,17)
LEDC_VSYNCB_K (10,17)
R213 100J
LEDC_HSYNCB (10)
CLKOUT
R212 X_100J
ECLK (10)

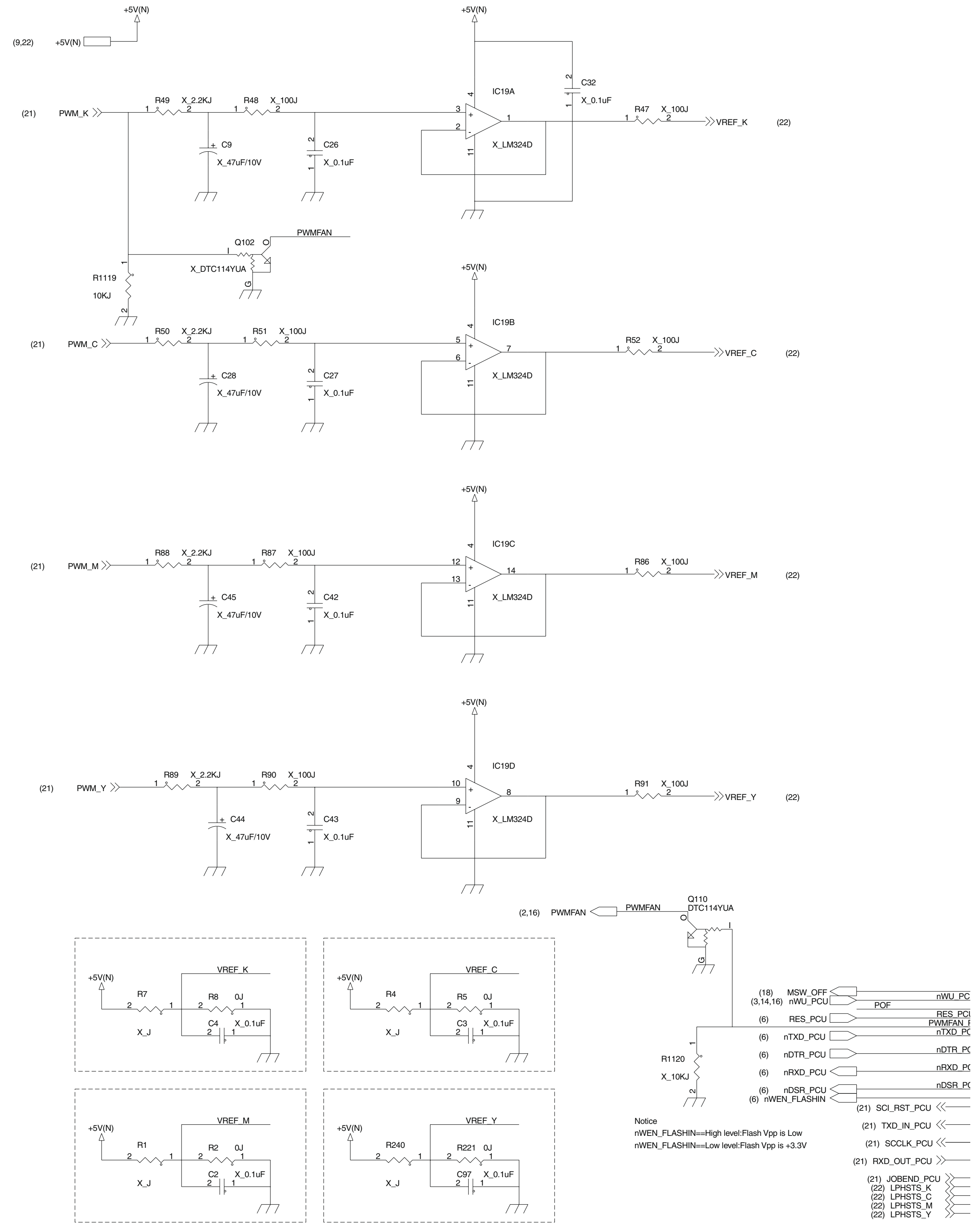
ICU PWB (LPH Connectors)



DCLK is send by VHC244 normally.
DCLOCK_x
DCLK_x_S
DCLK_x_DP
VHC244
LVDS
CN
R
(21) nLPHIF_ENB
nLPHIF_ENB
Separate near point
(21) DCLOCK_K
(21) DCLOCK_C
(21) DCLOCK_M
(21) DCLOCK_Y
R128 47J
R131 47J
R130 47J
R129 47J
DCLK_K_S
DCLK_C_S
DCLK_M_S
DCLK_Y_S
+3.3V
IC16
R100 X_47J
R103 X_47J
R102 X_47J
R101 X_47J
DCLK_K_DP
DCLK_C_DP
DCLK_M_DP
DCLK_Y_DP
DIN1
DIN2
DIN3
DIN4
EN
EN
DOUT1-
DOUT1+
DOUT2-
DOUT2+
DOUT3-
DOUT3+
DOUT4-
DOUT4+
DCLK_K_N
DCLK_K_P
DCLK_C_N
DCLK_C_PL
DCLK_M_N
DCLK_M_PL
DCLK_Y_N
DCLK_Y_PL
C35
X_0.1uF
X_DS90LV031ATM
(21) LDATA1_K[3:0]
(21) LDATA0_K[3:0]
LDATA1_K3
LDATA1_K2
LDATA1_K1
LDATA1_K0
LDATA0_K3
LDATA0_K2
LDATA0_K1
LDATA0_K0
IC18
VCC
1A1
1A2
1A3
1A4
2A1
2A2
2A3
2A4
1G
2G
GND
1Y1
1Y2
1Y3
1Y4
2Y1
2Y2
2Y3
2Y4
74LCX244
C63
0.1uF
+3.3V(N)
R46
10KJ
IC17
DCLK_K_S
(21) DVLD_K
(21) LSYN_K
(21) PSYN_K
(21) nLPHRESET
STATUS_K
C41
0.1uF
(21) LDATA1_M[3:0]
(21) LDATA0_M[3:0]
LDATA1_M3
LDATA1_M2
LDATA1_M1
LDATA1_M0
LDATA0_M3
LDATA0_M2
LDATA0_M1
LDATA0_M0
IC4
C57
0.1uF
R33
10KJ
IC3
DCLK_M_S
(21) DVLD_M
(21) LSYN_M
(21) PSYN_M
(21) nLPHRESET
STATUS_M
C37
0.1uF
R1028 1KJ
R9 0J
CN6
DCLK_K_P
DATA00_K
DATA02_K
DATA11_K
DATA13_K
LSYNC_K
PSYNC_K
DVALID_K
LPHRST_K
DCLK_K_N
DATA01_K
DATA03_K
DATA10_K
DATA12_K
STATUS_K
(23) VREF_K
B22B-PHDSS-B
R1029 1KJ
R6 0J
CN5
DCLK_C_P
DATA00_C
DATA02_C
DATA11_C
DATA13_C
LSYNC_C
PSYNC_C
DVALID_C
LPHRST_C
DCLK_C_N
DATA01_C
DATA03_C
DATA10_C
DATA12_C
STATUS_C
(23) VREF_C
B22B-PHDSS-B
R1030 1KJ
R3 0J
CN4
DCLK_M_P
DATA00_M
DATA02_M
DATA11_M
DATA13_M
LSYNC_M
PSYNC_M
DVALID_M
LPHRST_M
DCLK_M_N
DATA01_M
DATA03_M
DATA10_M
DATA12_M
STATUS_M
(23) VREF_M
B22B-PHDSS-B
R1031 1KJ
R192 0J
CN9
DCLK_Y_P
DATA00_Y
DATA02_Y
DATA11_Y
DATA13_Y
LSYNC_Y
PSYNC_Y
DVALID_Y
LPHRST_Y
DCLK_Y_N
DATA01_Y
DATA03_Y
DATA10_Y
DATA12_Y
STATUS_Y
(23) VREF_Y
B22B-PHDSS-B
+5V(N)
CN3 (9,23)
C12 470uF/10V
C13 47uF/10V
B06B-XASK-1
CN2
C8 470uF/10V
C1 47uF/10V
B06B-XASK-1
CN1
C5 470uF/10V
C6 47uF/10V
B06B-XASK-1
CN7
C56 470uF/10V
C30 47uF/10V
B06B-XASK-1
STS_K_INFO
Q4
DTC114YUA
LED4
LT1F67AF
ＬＥＤヘッドのステイタスモニタ
LIGHT to Error


IC8
74LCX244
LDATA1_C[3:0]
LDATA0_C[3:0]
nLPHIF_ENB
C59
0.1uF
BR5
BR6
100Jx4
BR15
BR14
10KJx4
BR3
BR4
BR12
BR11
DAT13_K
DATA13_K
DAT13_C
DATA13_C
+3.3V
+3.3V(N)
R35
10KJ
IC7
74LCX244
DCLK_C_S
DVLD_C
LSYN_C
PSYN_C
nLPHRESET
STATUS_C
C38
0.1uF
DCLK_K_PB
DVALID_KY
LSYNC_KY
PSYNC_KY
DCLK_K_PC
DVALID_K
LSYNC_K
PSYNC_K
LPHRST_K
LPHSTS_K
R76
X_10KJ
BR13
STS_K_INFO
DCLK_C_PB
DVALID_CY
LSYNC_CY
PSYNC_CY
DCLK_C_PC
DVALID_C
LSYNC_C
PSYNC_C
LPHRST_C
LPHSTS_C
R62
X_10KJ
BR10
STS_C_INFO
IC27
74LCX244
LDATA1_Y[3:0]
LDATA0_Y[3:0]
C128
0.1uF
BR1
BR2
BR9
BR8
BR40
BR26
BR28
BR41
DAT13_M
DATA13_M
DAT13_Y
DATA13_Y
R241
10KJ
IC26
74LCX244
DCLK_Y_S
DVLD_Y
LSYN_Y
PSYN_Y
STATUS_Y
C116
0.1uF
DCLK_M_PB
DVALID_MY
LSYNC_MY
PSYNC_MY
DCLK_M_PC
DVALID_M
LSYNC_M
PSYNC_M
LPHRST_M
LPHSTS_M
R57
X_10KJ
BR7
STS_M_INFO
DCLK_Y_PB
DVALID_YY
LSYNC_YY
PSYNC_YY
DCLK_Y_PC
DVALID_Y
LSYNC_Y
PSYNC_Y
LPHRST_Y
LPHSTS_Y
R249
X_10KJ
BR39
STS_Y_INFO
R27
R24
R21
R18
470J
LED3
LED2
LED1
LT1F67AF
Q3
Q2
Q1
DTC114YUA
STS_C_INFO
STS_M_INFO
STS_Y_INFO
DCLK_K_PC R902 1 0J DCLK_K_P
DCLK_C_PC R903 1 0J DCLK_C_P
DCLK_C_PL R904 1 X_0J
DCLK_M_PC R905 1 0J DCLK_M_P
DCLK_M_PL R906 1 X_0J
DCLK_Y_PC R907 1 0J DCLK_Y_P
DCLK_Y_PL R908 1 X_0J
ステイタスモニタ用
3
2
1
D
C
B
A

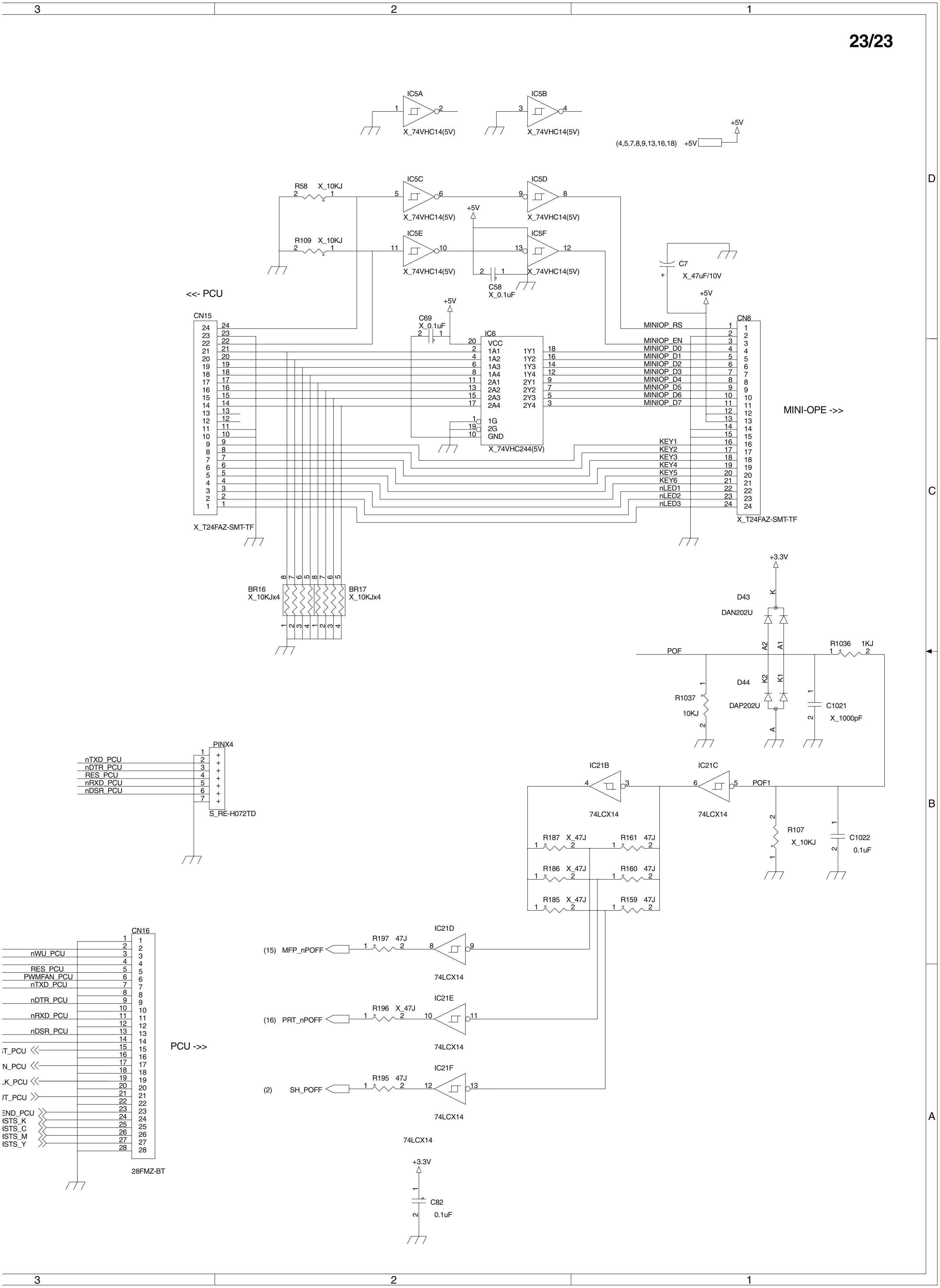
ICU PWB (PWM D/A, PCU I/F)



(9,22) +5V(N)
+5V(N)
(21) PWM_K
R49 X_2.2KJ
R48 X_100J
C9 X_47uF/10V
C26 X_0.1uF
IC19A
X_LM324D
C32 X_0.1uF
R47 X_100J
VREF_K (22)
Q102
X_DTC114YUA
PWMFAN
R1119 10KJ
(21) PWM_C
R50 X_2.2KJ
R51 X_100J
C28 X_47uF/10V
C27 X_0.1uF
IC19B
X_LM324D
R52 X_100J
VREF_C (22)
(21) PWM_M
R88 X_2.2KJ
R87 X_100J
C45 X_47uF/10V
C42 X_0.1uF
IC19C
X_LM324D
R86 X_100J
VREF_M (22)
(21) PWM_Y
R89 X_2.2KJ
R90 X_100J
C44 X_47uF/10V
C43 X_0.1uF
IC19D
X_LM324D
R91 X_100J
VREF_Y (22)
(2,16) PWMFAN
PWMFAN
Q110 DTC114YUA
VREF_K
R7 X_J
R8 0J
C4 X_0.1uF
VREF_C
R4 X_J
R5 0J
C3 X_0.1uF
VREF_M
R1 X_J
R2 0J
C2 X_0.1uF
VREF_Y
R240 X_J
R221 0J
C97 X_0.1uF
R1120 X_10KJ
(18) MSW_OFF
(3,14,16) nWU_PCU
(6) RES_PCU
(6) nTXD_PCU
(6) nDTR_PCU
(6) nRXD_PCU
(6) nDSR_PCU
(6) nWEN_FLASHIN
nWU_PC
POF
RES_PCU
PWMFAN_F
nTXD_PC
nDTR_PC
nRXD_PC
nDSR_PC
(21) SCI_RST_PCU
(21) TXD_IN_PCU
(21) SCCLK_PCU
(21) RXD_OUT_PCU
(21) JOBEND_PCU
(22) LPHSTS_K
(22) LPHSTS_C
(22) LPHSTS_M
(22) LPHSTS_Y
5
4
3
D
C
B
A

Notice
nWEN_FLASHIN==High level:Flash Vpp is Low
nWEN_FLASHIN==Low level:Flash Vpp is +3.3V

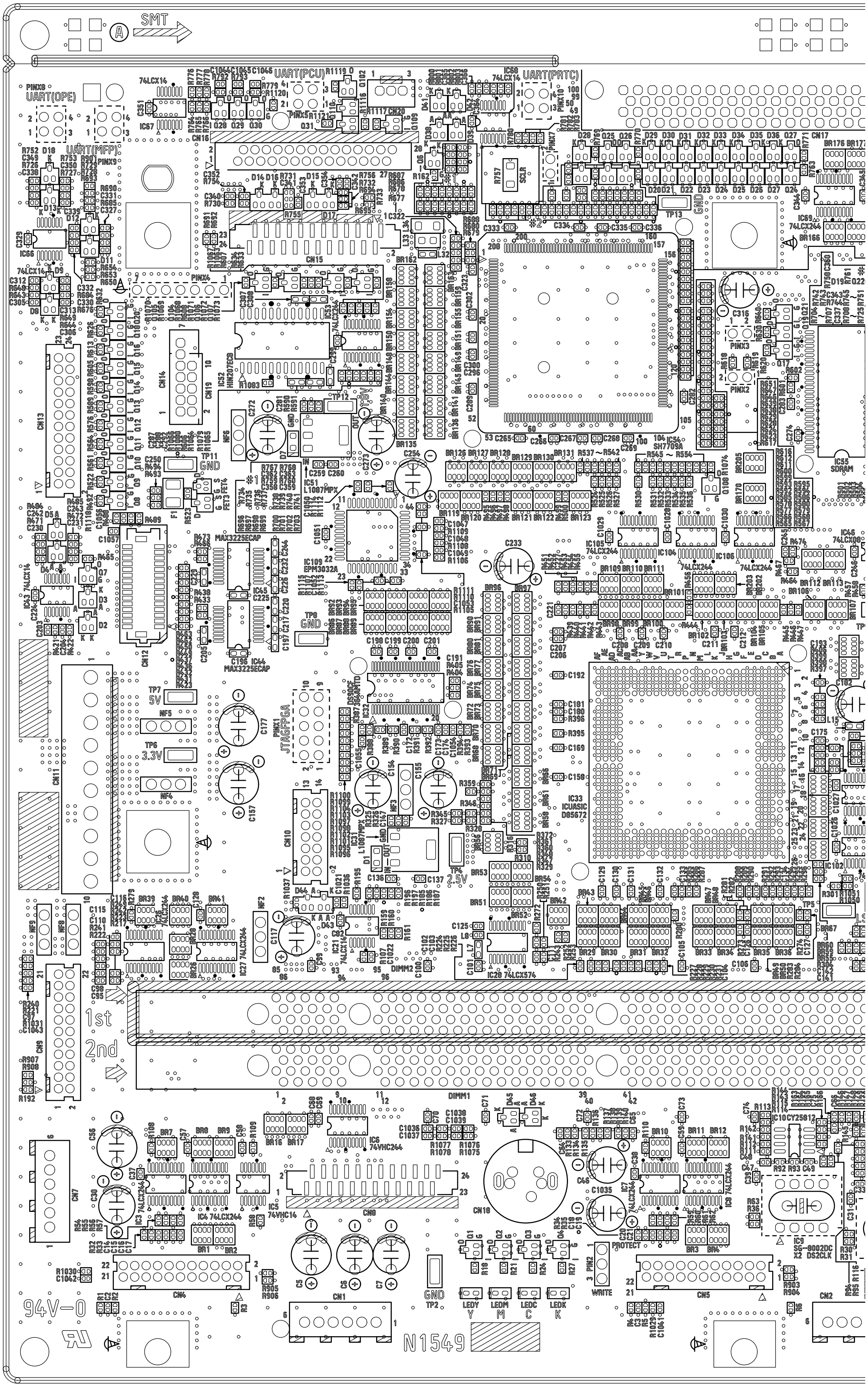
2002.09.10
R1,R4,R7,R240.....1.5KJ--->X_J
R2,R5,R8,R221.....1KJ---->0J


IC5A
X_74VHC14(5V)
IC5B
X_74VHC14(5V)
(4,5,7,8,9,13,16,18) +5V
+5V
IC5C
IC5D
IC5E
IC5F
R58 X_10KJ
R109 X_10KJ
C58 X_0.1uF
C7 X_47uF/10V
<<- PCU
CN15
X_T24FAZ-SMT-TF
C69 X_0.1uF
IC6
VCC
1A1
1A2
1A3
1A4
2A1
2A2
2A3
2A4
1G
2G
GND
1Y1
1Y2
1Y3
1Y4
2Y1
2Y2
2Y3
2Y4
X_74VHC244(5V)
MINIOP_RS
MINIOP_EN
MINIOP_D0
MINIOP_D1
MINIOP_D2
MINIOP_D3
MINIOP_D4
MINIOP_D5
MINIOP_D6
MINIOP_D7
KEY1
KEY2
KEY3
KEY4
KEY5
KEY6
nLED1
nLED2
nLED3
CN8
X_T24FAZ-SMT-TF
MINI-OPE ->>
BR16 X_10KJx4
BR17 X_10KJx4
+3.3V
D43
DAN202U
POF
R1036 1KJ
R1037 10KJ
D44
DAP202U
C1021 X_1000pF
PINX4
nTXD_PCU
nDTR_PCU
RES_PCU
nRXD_PCU
nDSR_PCU
S_RE-H072TD
IC21B
74LCX14
IC21C
74LCX14
POF1
R107 X_10KJ
C1022 0.1uF
R187 X_47J
R161 47J
R186 X_47J
R160 47J
R185 X_47J
R159 47J
CN16
nWU_PCU
RES_PCU
PWMFAN_PCU
nTXD_PCU
nDTR_PCU
nRXD_PCU
nDSR_PCU
T_PCU
N_PCU
K_PCU
T_PCU
END_PCU
ISTS_K
ISTS_C
ISTS_M
ISTS_Y
28FMZ-BT
PCU ->>
(15) MFP_nPOFF
R197 47J
IC21D
74LCX14
(16) PRT_nPOFF
R196 X_47J
IC21E
74LCX14
(2) SH_POFF
R195 47J
IC21F
74LCX14
74LCX14
+3.3V
C82 0.1uF

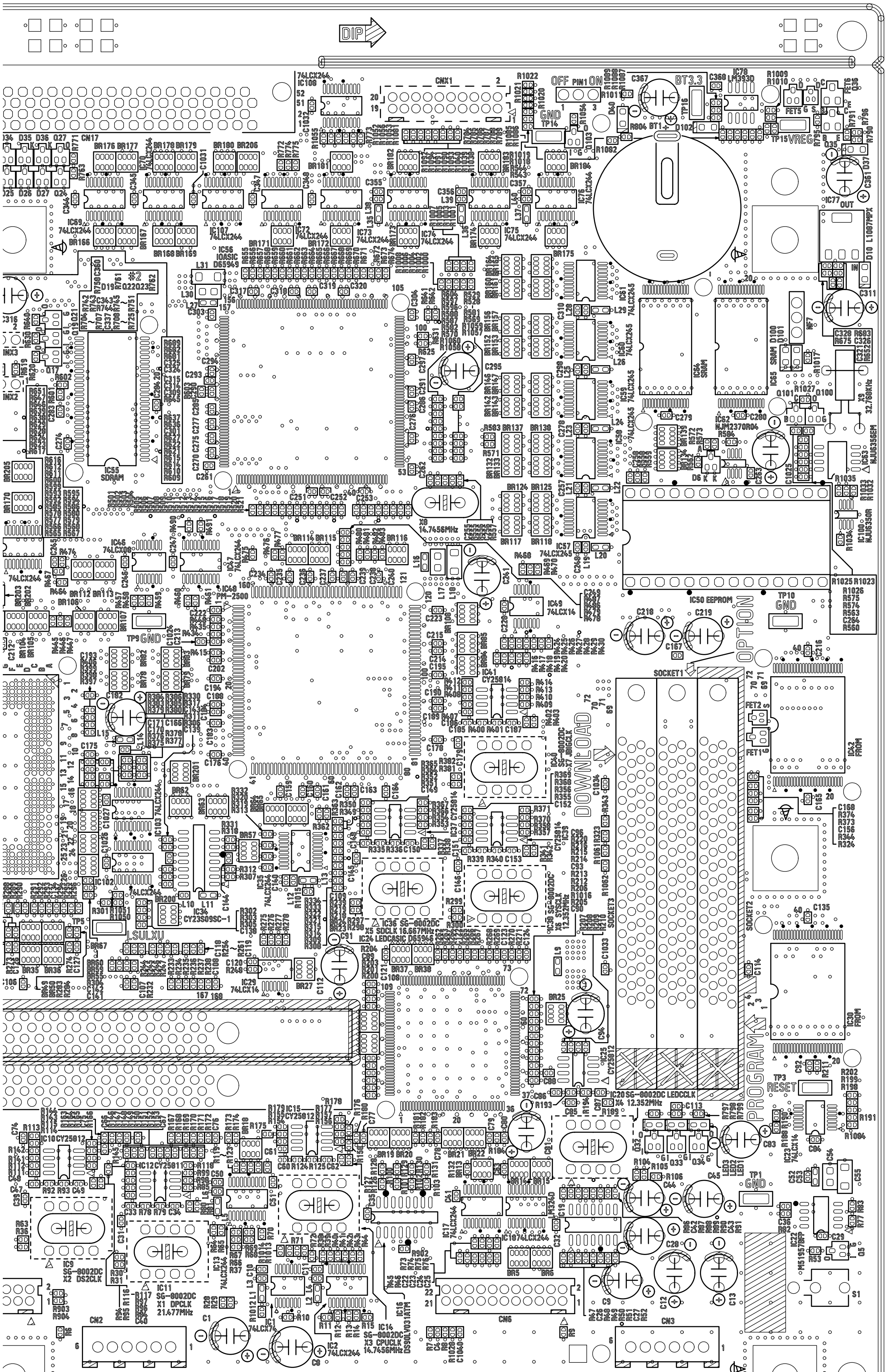
ICU PWB

PARTS LAYOUT / 部品配置図

[PARTS SURFACE / 部品面]

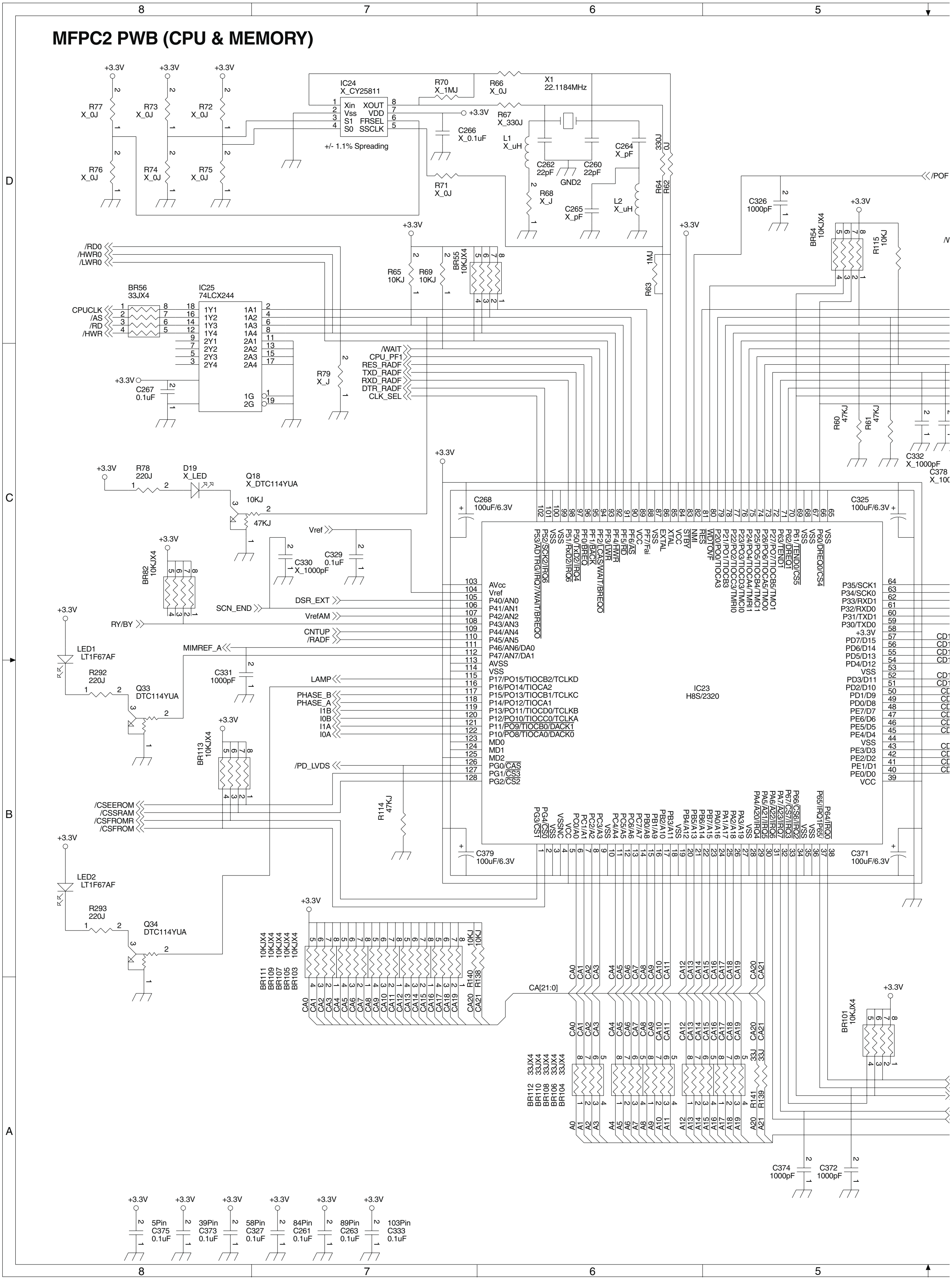


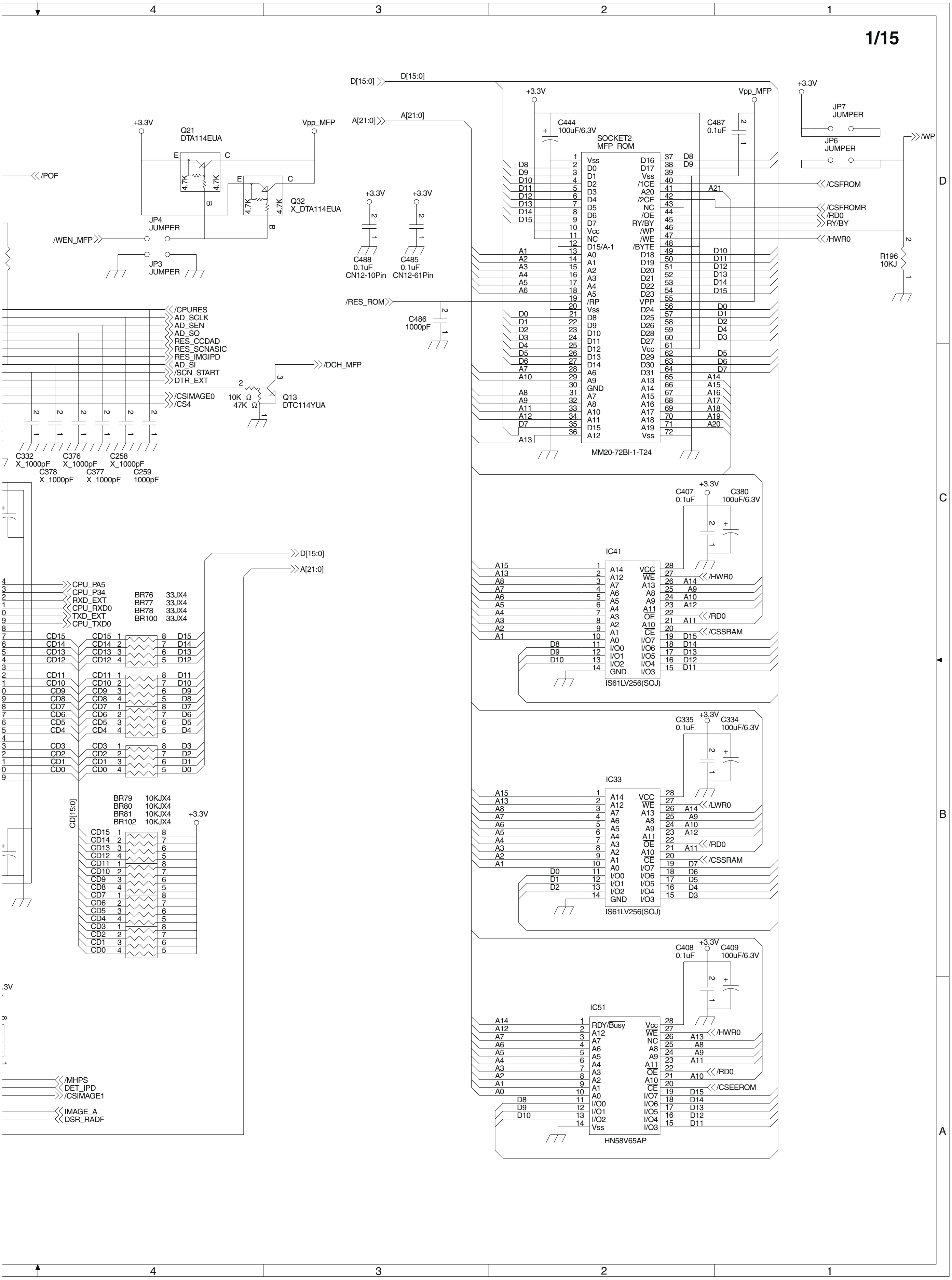
SMT
A
UART(OPE)
UART(MFP)
UART(PCU)
UART(PRTC)
PINX8
PINX9
PINX10
PINX4
PINX5
PINX1
PINX2
PINX3
74LCX14
IC67
IC60
CN16
CN15
CN14
CN13
CN12
CN11
CN10
CN9
CN7
CN4
CN1
CN8
CN18
CN5
CN2
CN17
IC52
HIN207ECB
IC51
L1087MPX
IC109
EPM3032A
IC54
SH7709A
IC55
SDRAM
IC33
ICUASIC
D85672
IC44
MAX3225ECAP
MAX3225ECAP
JTAGFPGA
TP11
GND
TP12
TP9
GND
TP7
5V
TP6
3.3V
TP4
2.5V
TP2
GND
TP5
TP13
GND
NF5
NF4
NF3
NF2
NF6
NF7
NF8
NF9
DIMM1
DIMM2
1st
2nd
IC6
74VHC244
IC5
74VHC14
IC4 74LCX244
IC3 74LCX244
IC7 74LCX244
IC8 74LCX244
IC28 74LCX574
IC21
IC27 74LCX244
IC9
SG-8002DC
X2 DS2CLK
IC10CY25812
IC66
74LCX14
IC63
74LCX14
IC69
74LCX244
IC105
74LCX244
IC106
IC104
IC46
74LCX08
SCLR
LEDY
Y
LEDM
M
LEDC
C
LEDK
K
WRITE
PROTECT
PIN2
94V-0
N1549


DIP
CNX1
OFF PIN1 ON
BT3.3
GND
VREG
OUT
IC55 SDRAM
IC56 IOASIC D65949
X8 14.7456MHz
IC48 PM-2500
IC54 SRAM
IC50 EEPROM
TP10 GND
OPTION
SOCKET1
SOCKET2
SOCKET3
DOWNLOAD
PROGRAM
IC42 FROM
IC30 FROM
TP3 RESET
TP1 GND
TP9 GND
IC36 SG-8002DC X5 SDCLK 16.667MHz
IC24 LEDCASIC D65946
IC20 SG-8002DC LEDCCLK X4 12.352MHz
IC14 SG-8002DC X3 CPUCLK 14.7456MHz
IC11 SG-8002DC X1 DPCLK 21.477MHz
IC5 SG-8002DC X2 DS2CLK
IC34 CY23S09SC-1
X9 32.768KHz
CN2
CN3
CN6
S1
SHARP WHALE ICU PWB-3

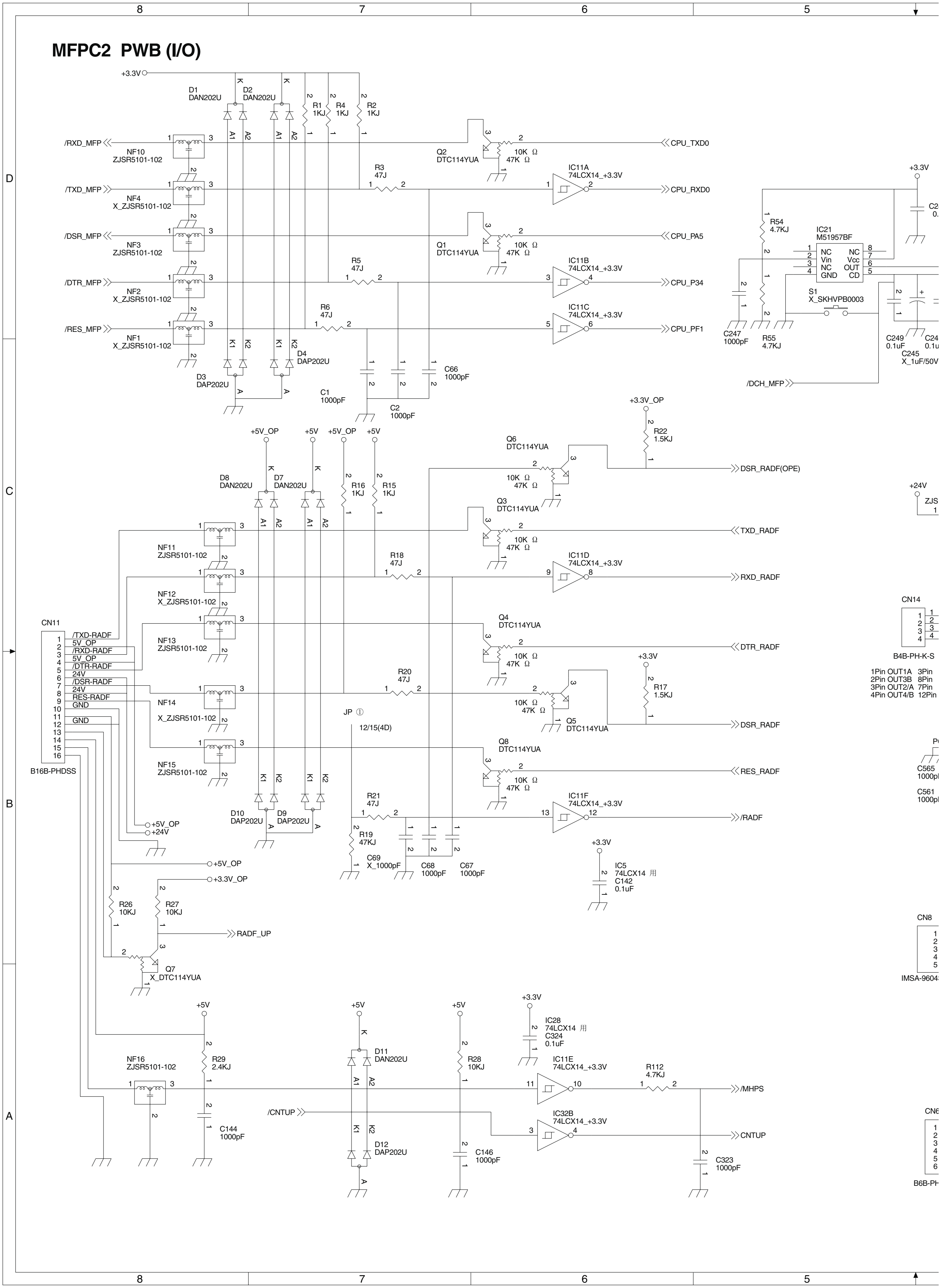
C. MFPC2 PWB

MFPC2 PWB (CPU & MEMORY)

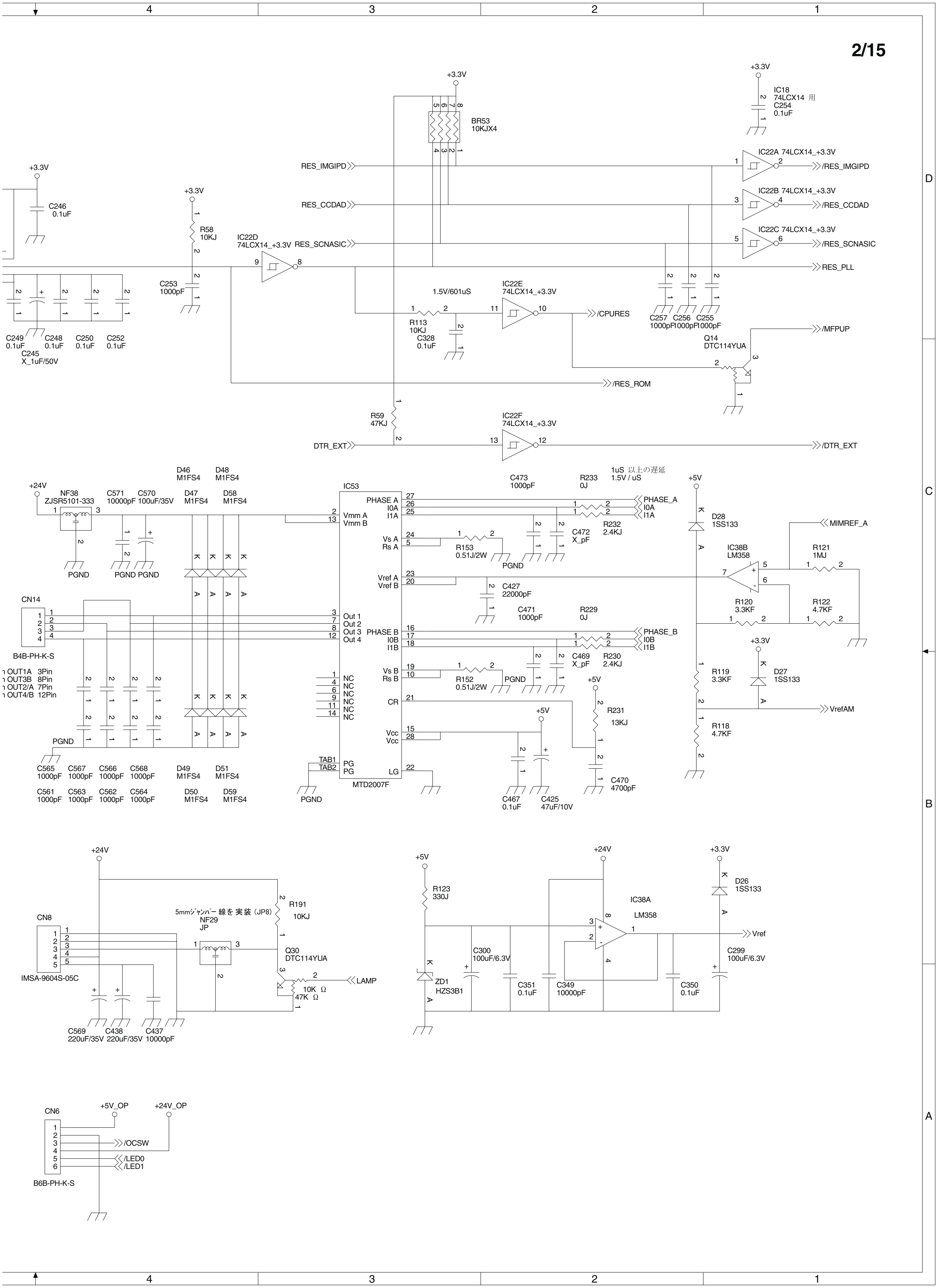

8
7
6
5
D
C
B
A
+3.3V
R77 X_0J
R73 X_0J
R72 X_0J
R76 X_0J
R74 X_0J
R75 X_0J
IC24 X_CY25811
Xin XOUT
Vss VDD
S1 FRSEL
S0 SSCLK
+/- 1.1% Spreading
R70 X_1MJ
R66 X_0J
X1 22.1184MHz
R67 X_330J
C266 X_0.1uF
L1 X_uH
C262 22pF
C260 22pF
GND2
C264 X_pF
R71 X_0J
R68 X_J
C265 X_pF
L2 X_uH
R64 330J
R62 0J
/POF
C326 1000pF
BR54 10KJX4
R115 10KJ
/RD0
/HWR0
/LWR0
R65 10KJ
R69 10KJ
BR55 10KJX4
R63 1MJ
BR56 33JX4
IC25 74LCX244
CPUCLK
/AS
/RD
/HWR
1Y1 1Y2 1Y3 1Y4 2Y1 2Y2 2Y3 2Y4
1A1 1A2 1A3 1A4 2A1 2A2 2A3 2A4
1G 2G
C267 0.1uF
R79 X_J
/WAIT
CPU_PF1
RES_RADF
TXD_RADF
RXD_RADF
DTR_RADF
CLK_SEL
R60 47KJ
R61 47KJ
C332 X_1000pF
C378 X_100
R78 220J
D19 X_LED
Q18 X_DTC114YUA
10KJ
47KJ
C268 100uF/6.3V
C325 100uF/6.3V
Vref
C330 X_1000pF
C329 0.1uF
BR82 10KJX4
DSR_EXT
SCN_END
VrefAM
RY/BY
CNTUP
/RADF
MIMREF_A
LED1 LT1F67AF
R292 220J
Q33 DTC114YUA
C331 1000pF
LAMP
PHASE_B
PHASE_A
I1B
I0B
I1A
I0A
BR113 10KJX4
/PD_LVDS
IC23 H8S/2320
AVcc
Vref
P40/AN0
P41/AN1
P42/AN2
P43/AN3
P44/AN4
P45/AN5
P46/AN6/DA0
P47/AN7/DA1
AVSS
VSS
P17/PO15/TIOCB2/TCLKD
P16/PO14/TIOCA2
P15/PO13/TIOCB1/TCLKC
P14/PO12/TIOCA1
P13/PO11/TIOCD0/TCLKB
P12/PO10/TIOCC0/TCLKA
P11/PO9/TIOCB0/DACK1
P10/PO8/TIOCA0/DACK0
MD0
MD1
MD2
PG0/CAS
PG1/CS3
PG2/CS2
P35/SCK1
P34/SCK0
P33/RXD1
P32/RXD0
P31/TXD1
P30/TXD0
+3.3V
PD7/D15
PD6/D14
PD5/D13
PD4/D12
VSS
PD3/D11
PD2/D10
PD1/D9
PD0/D8
PE7/D7
PE6/D6
PE5/D5
PE4/D4
VSS
PE3/D3
PE2/D2
PE1/D1
PE0/D0
VCC
R114 47KJ
/CSEEROM
/CSSRAM
/CSFROMR
/CSFROM
C379 100uF/6.3V
C371 100uF/6.3V
LED2 LT1F67AF
R293 220J
Q34 DTC114YUA
BR111 BR109 BR107 BR105 BR103 10KJX4
R140 R138 10KJ
CA[21:0]
CA0 CA1 CA2 CA3 CA4 CA5 CA6 CA7 CA8 CA9 CA10 CA11 CA12 CA13 CA14 CA15 CA16 CA17 CA18 CA19 CA20 CA21
BR112 BR110 BR108 BR106 BR104 33JX4
R141 R139 33J
A0 A1 A2 A3 A4 A5 A6 A7 A8 A9 A10 A11 A12 A13 A14 A15 A16 A17 A18 A19 A20 A21
BR101 10KJX4
C374 1000pF
C372 1000pF
5Pin C375 0.1uF
39Pin C373 0.1uF
58Pin C327 0.1uF
84Pin C261 0.1uF
89Pin C263 0.1uF
103Pin C333 0.1uF


1/15
D[15:0]
A[21:0]
+3.3V
Vpp_MFP
Q21
DTA114EUA
Q32
X_DTA114EUA
4.7K
JP4
JUMPER
JP3
JUMPER
/WEN_MFP
/POF
C444
100uF/6.3V
SOCKET2
MFP ROM
MM20-72BI-1-T24
C487
0.1uF
JP7
JUMPER
JP6
JUMPER
/WP
/CSFROM
/CSFROMR
/RD0
RY/BY
/HWR0
R196
10KJ
C488
0.1uF
CN12-10Pin
C485
0.1uF
CN12-61Pin
/RES_ROM
C486
1000pF
/CPURES
AD_SCLK
AD_SEN
AD_SO
RES_CCDAD
RES_SCNASIC
RES_IMGIPD
AD_SI
/SCN_START
DTR_EXT
/CSIMAGE0
/CS4
/DCH_MFP
Q13
DTC114YUA
10K Ω
47K Ω
C332
X_1000pF
C376
X_1000pF
C258
X_1000pF
C378
X_1000pF
C377
X_1000pF
C259
1000pF
CPU_PA5
CPU_P34
RXD_EXT
CPU_RXD0
TXD_EXT
CPU_TXD0
BR76 33JX4
BR77 33JX4
BR78 33JX4
BR100 33JX4
BR79 10KJX4
BR80 10KJX4
BR81 10KJX4
BR102 10KJX4
CD[15:0]
IC41
IS61LV256(SOJ)
C407
0.1uF
C380
100uF/6.3V
/CSSRAM
IC33
IS61LV256(SOJ)
C335
0.1uF
C334
100uF/6.3V
/LWR0
IC51
HN58V65AP
C408
0.1uF
C409
100uF/6.3V
/CSEEROM
/MHPS
DET_IPD
/CSIMAGE1
IMAGE_A
DSR_RADF
4
3
2
1
D
C
B
A

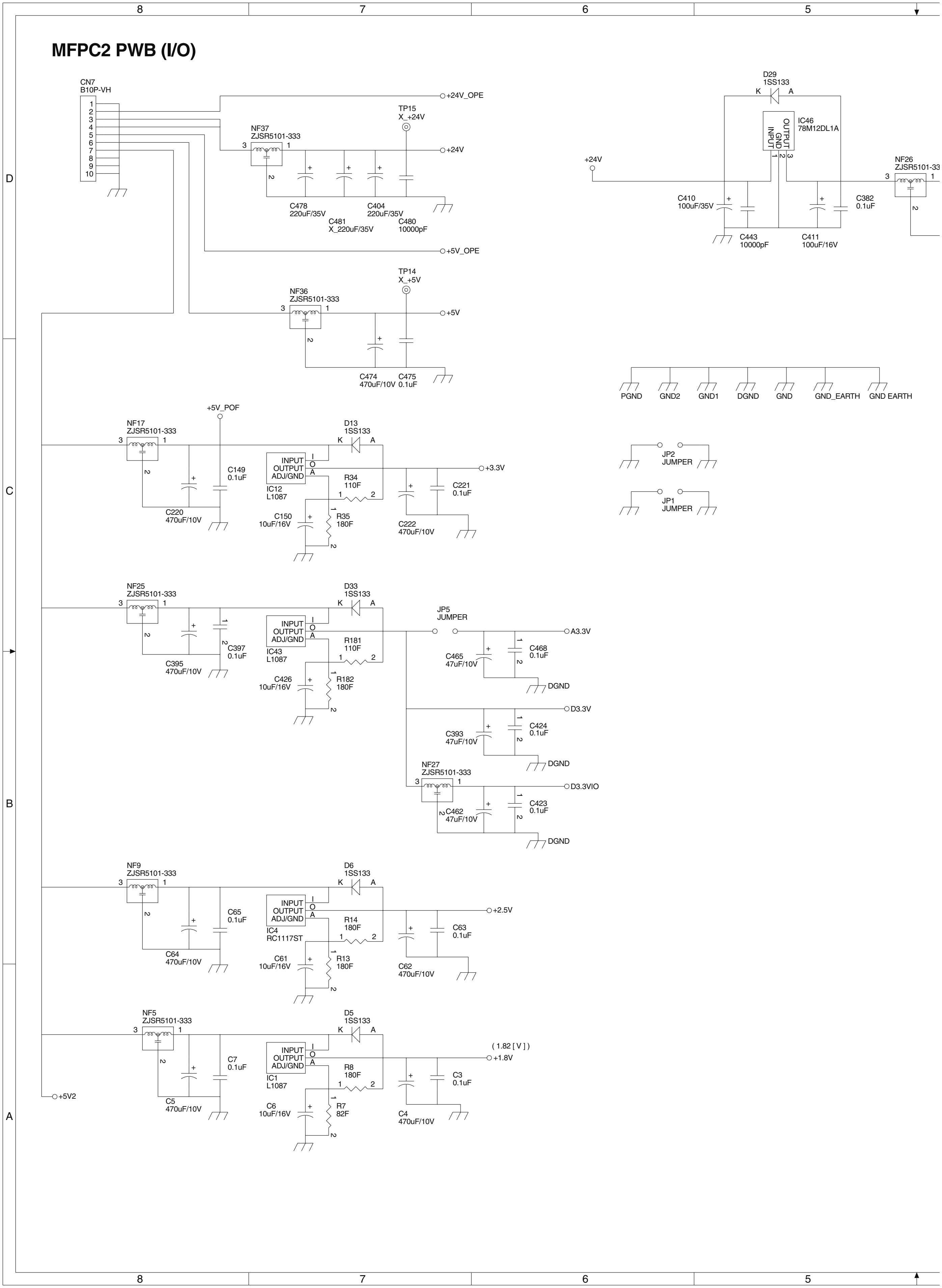
MFPC2 PWB (I/O)



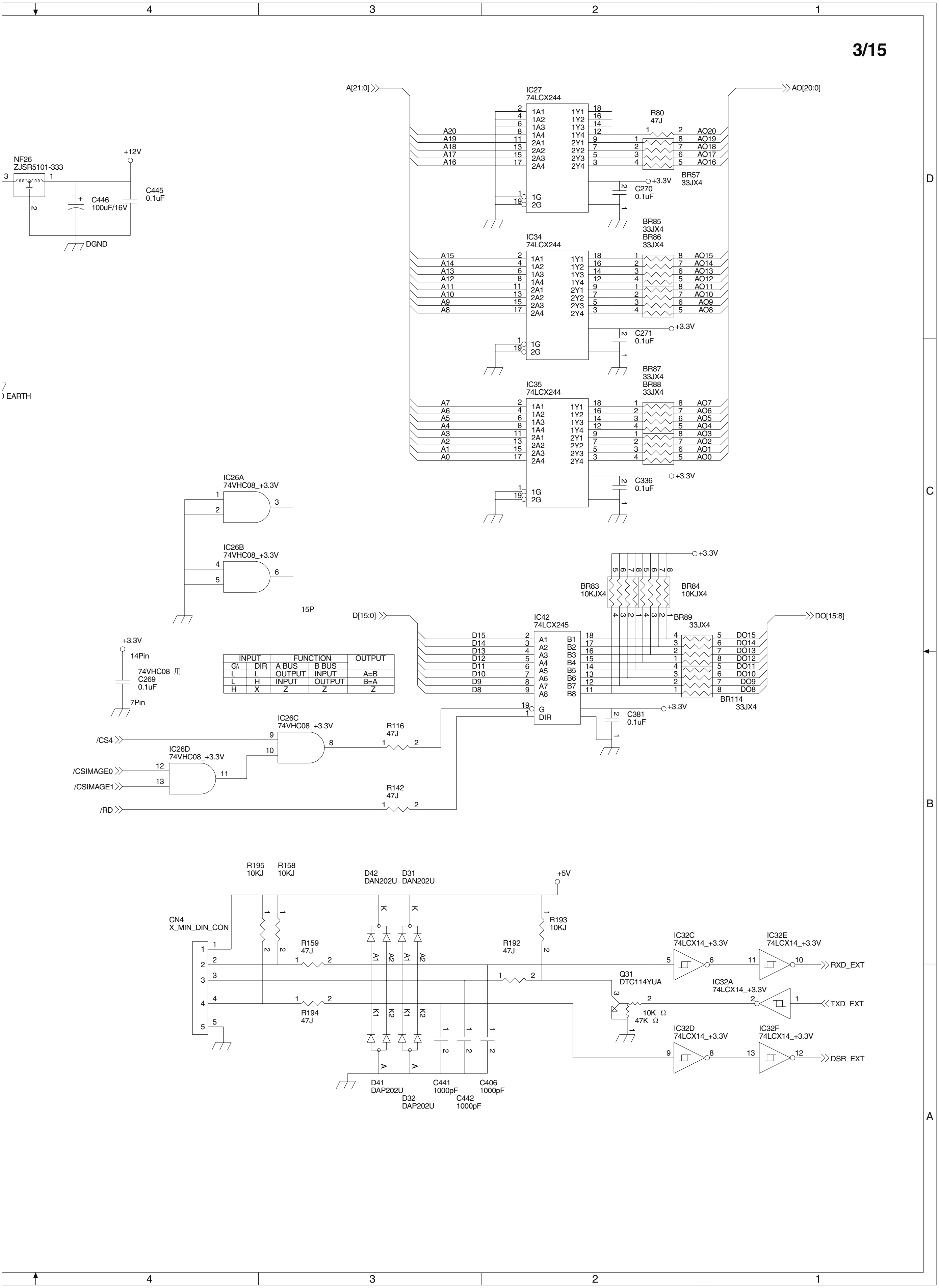
8
7
6
5
D
C
B
A
+3.3V
D1
DAN202U
D2
DAN202U
R1
1KJ
R4
1KJ
R2
1KJ
/RXD_MFP
NF10
ZJSR5101-102
Q2
DTC114YUA
10K Ω
47K Ω
CPU_TXD0
R3
47J
IC11A
74LCX14_+3.3V
/TXD_MFP
NF4
X_ZJSR5101-102
CPU_RXD0
/DSR_MFP
NF3
ZJSR5101-102
Q1
DTC114YUA
CPU_PA5
R5
47J
IC11B
74LCX14_+3.3V
/DTR_MFP
NF2
X_ZJSR5101-102
CPU_P34
R6
47J
IC11C
74LCX14_+3.3V
/RES_MFP
NF1
X_ZJSR5101-102
CPU_PF1
D3
DAP202U
D4
DAP202U
C1
1000pF
C2
1000pF
C66
1000pF
R54
4.7KJ
IC21
M51957BF
NC
Vin
NC
GND
NC
Vcc
OUT
CD
S1
X_SKHVPB0003
C247
1000pF
R55
4.7KJ
C249
0.1uF
C245
X_1uF/50V
/DCH_MFP
+3.3V_OP
R22
1.5KJ
+5V_OP
+5V
+5V_OP
+5V
Q6
DTC114YUA
DSR_RADF(OPE)
D8
DAN202U
D7
DAN202U
R16
1KJ
R15
1KJ
Q3
DTC114YUA
TXD_RADF
NF11
ZJSR5101-102
R18
47J
IC11D
74LCX14_+3.3V
RXD_RADF
NF12
X_ZJSR5101-102
+24V
CN14
B4B-PH-K-S
1Pin OUT1A 3Pin
2Pin OUT3B 8Pin
3Pin OUT2/A 7Pin
4Pin OUT4/B 12Pin
CN11
/TXD-RADF
5V_OP
/RXD-RADF
5V_OP
/DTR-RADF
24V
/DSR-RADF
24V
RES-RADF
GND
GND
B16B-PHDSS
NF13
ZJSR5101-102
Q4
DTC114YUA
DTR_RADF
+3.3V
R20
47J
R17
1.5KJ
NF14
X_ZJSR5101-102
Q5
DTC114YUA
DSR_RADF
JP ①
12/15(4D)
Q8
DTC114YUA
RES_RADF
NF15
ZJSR5101-102
C565
1000pF
C561
1000pF
D10
DAP202U
D9
DAP202U
R21
47J
IC11F
74LCX14_+3.3V
/RADF
R19
47KJ
C69
X_1000pF
C68
1000pF
C67
1000pF
+5V_OP
+24V
+5V_OP
+3.3V_OP
IC5
74LCX14 用
C142
0.1uF
R26
10KJ
R27
10KJ
RADF_UP
CN8
IMSA-9604
Q7
X_DTC114YUA
+5V
+5V
+5V
+3.3V
IC28
74LCX14 用
C324
0.1uF
D11
DAN202U
NF16
ZJSR5101-102
R29
2.4KJ
R28
10KJ
IC11E
74LCX14_+3.3V
R112
4.7KJ
/MHPS
/CNTUP
IC32B
74LCX14_+3.3V
CNTUP
C144
1000pF
D12
DAP202U
C146
1000pF
C323
1000pF
CN6
B6B-PH


2/15
4
3
2
1
D
C
B
A
+3.3V
IC18
74LCX14 用
C254
0.1uF
BR53
10KJX4
RES_IMGIPD
RES_CCDAD
RES_SCNASIC
IC22A 74LCX14_+3.3V
IC22B 74LCX14_+3.3V
IC22C 74LCX14_+3.3V
/RES_IMGIPD
/RES_CCDAD
/RES_SCNASIC
RES_PLL
C246
0.1uF
R58
10KJ
IC22D
74LCX14_+3.3V
C253
1000pF
C249
0.1uF
C248
0.1uF
C250
0.1uF
C252
0.1uF
C245
X_1uF/50V
1.5V/601uS
IC22E
74LCX14_+3.3V
R113
10KJ
C328
0.1uF
/CPURES
C257
1000pF
C256
1000pF
C255
1000pF
/MFPUP
Q14
DTC114YUA
/RES_ROM
R59
47KJ
IC22F
74LCX14_+3.3V
DTR_EXT
/DTR_EXT
+24V
NF38
ZJSR5101-333
C571
10000pF
C570
100uF/35V
D46
M1FS4
D48
M1FS4
D47
M1FS4
D58
M1FS4
PGND
IC53
PHASE A
I0A
I1A
Vmm A
Vmm B
Vs A
Rs A
Vref A
Vref B
Out 1
Out 2
Out 3
Out 4
PHASE B
I0B
I1B
Vs B
Rs B
NC
CR
Vcc
TAB1
TAB2
PG
LG
MTD2007F
C473
1000pF
R233
0J
1uS 以上の遅延
1.5V / uS
PHASE_A
I0A
I1A
R232
2.4KJ
C472
X_pF
R153
0.51J/2W
C427
22000pF
C471
1000pF
R229
0J
PHASE_B
I0B
I1B
C469
X_pF
R230
2.4KJ
R152
0.51J/2W
+5V
D28
1SS133
MIMREF_A
IC38B
LM358
R121
1MJ
R120
3.3KF
R122
4.7KF
D27
1SS133
R119
3.3KF
R118
4.7KF
VrefAM
R231
13KJ
C470
4700pF
C467
0.1uF
C425
47uF/10V
CN14
B4B-PH-K-S
OUT1A 3Pin
OUT3B 8Pin
OUT2/A 7Pin
OUT4/B 12Pin
C565
1000pF
C567
1000pF
C566
1000pF
C568
1000pF
C561
1000pF
C563
1000pF
C562
1000pF
C564
1000pF
D49
M1FS4
D51
M1FS4
D50
M1FS4
D59
M1FS4
CN8
IMSA-9604S-05C
R191
10KJ
5mmジャンパー線を実装（JP8）
NF29
JP
Q30
DTC114YUA
10K Ω
47K Ω
LAMP
C569
220uF/35V
C438
220uF/35V
C437
10000pF
R123
330J
ZD1
HZS3B1
C300
100uF/6.3V
C351
0.1uF
C349
10000pF
IC38A
LM358
C350
0.1uF
D26
1SS133
Vref
C299
100uF/6.3V
CN6
+5V_OP
+24V_OP
/OCSW
/LED0
/LED1
B6B-PH-K-S

MFPC2 PWB (I/O)


8
7
6
5
D
C
B
A
CN7
B10P-VH
1
2
3
4
5
6
7
8
9
10
+24V_OPE
TP15
X_+24V
NF37
ZJSR5101-333
+24V
C478
220uF/35V
C481
X_220uF/35V
C404
220uF/35V
C480
10000pF
+5V_OPE
TP14
X_+5V
NF36
ZJSR5101-333
+5V
C474
470uF/10V
C475
0.1uF
D29
1SS133
K
A
IC46
78M12DL1A
OUTPUT
GND
INPUT
+24V
NF26
C410
100uF/35V
C443
10000pF
C411
100uF/16V
C382
0.1uF
PGND
GND2
GND1
DGND
GND
GND_EARTH
GND EARTH
JP2
JUMPER
JP1
JUMPER
+5V_POF
NF17
ZJSR5101-333
C220
470uF/10V
C149
0.1uF
D13
1SS133
INPUT
OUTPUT
ADJ/GND
I
O
A
IC12
L1087
R34
110F
+3.3V
C150
10uF/16V
R35
180F
C221
0.1uF
C222
470uF/10V
NF25
ZJSR5101-333
C395
470uF/10V
C397
0.1uF
D33
1SS133
IC43
L1087
R181
110F
C426
10uF/16V
R182
180F
JP5
JUMPER
A3.3V
C465
47uF/10V
C468
0.1uF
DGND
D3.3V
C393
47uF/10V
C424
0.1uF
DGND
NF27
ZJSR5101-333
D3.3VIO
C462
47uF/10V
C423
0.1uF
DGND
NF9
ZJSR5101-333
C64
470uF/10V
C65
0.1uF
D6
1SS133
IC4
RC1117ST
R14
180F
+2.5V
C61
10uF/16V
R13
180F
C63
0.1uF
C62
470uF/10V
NF5
ZJSR5101-333
C5
470uF/10V
C7
0.1uF
D5
1SS133
IC1
L1087
R8
180F
(1.82 [V])
+1.8V
C6
10uF/16V
R7
82F
C3
0.1uF
C4
470uF/10V
+5V2

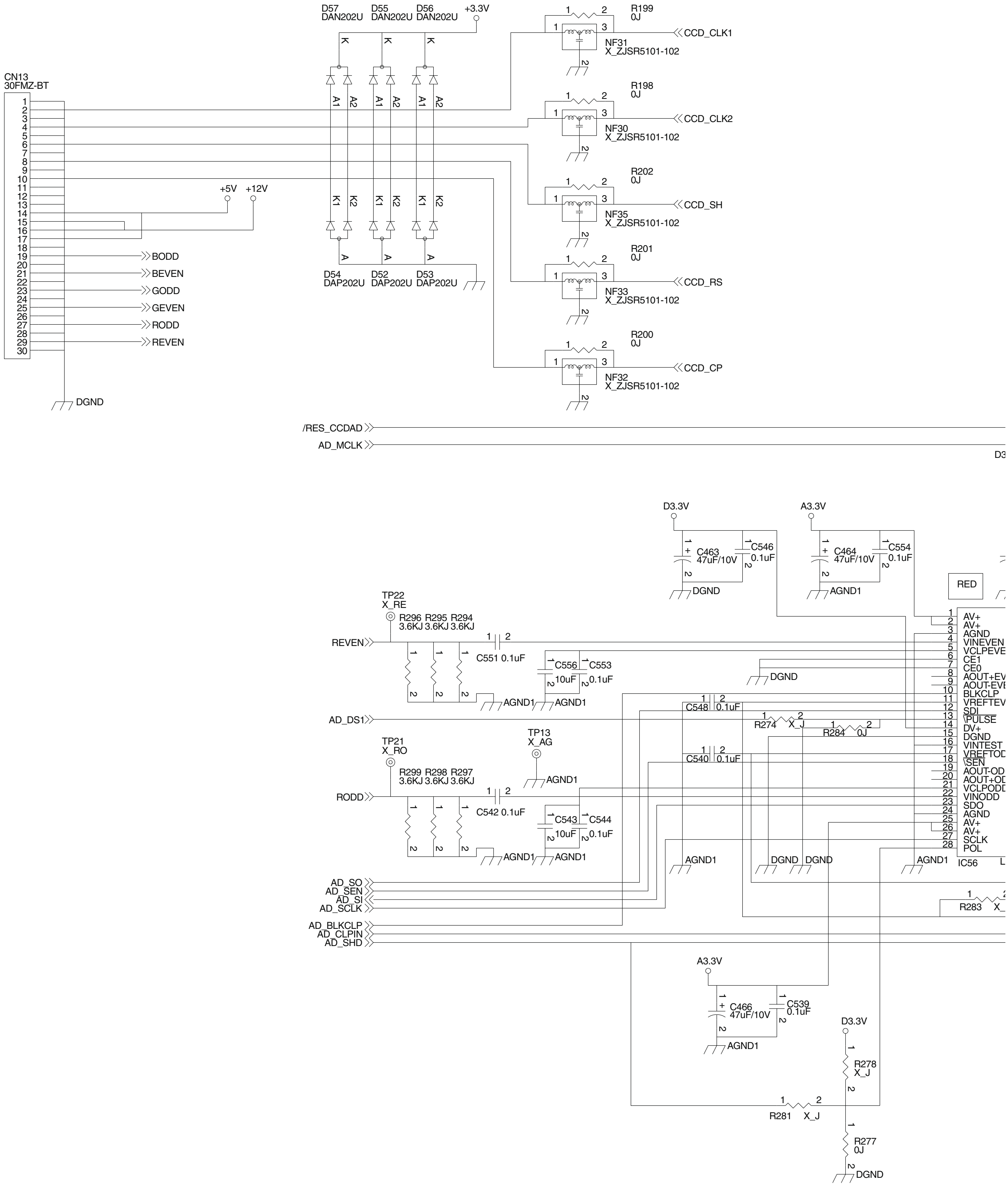
3/15



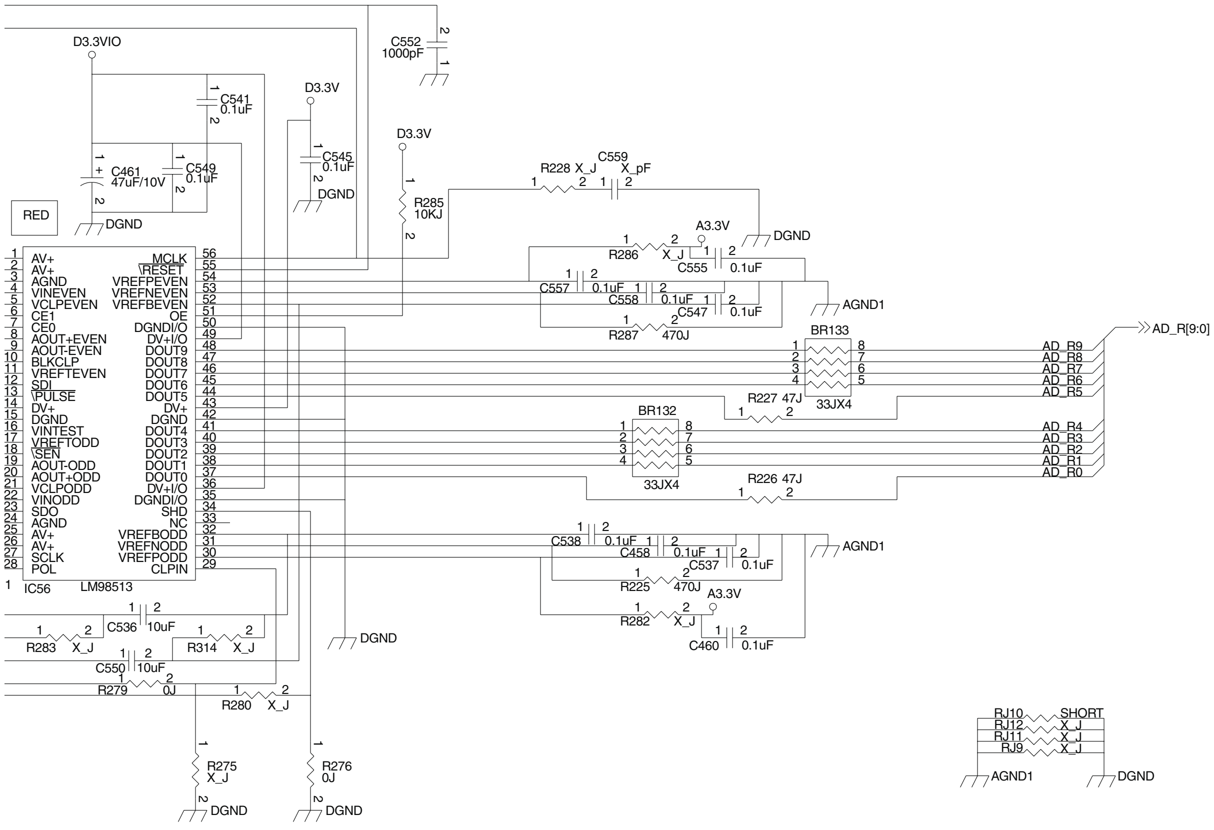
4
3
2
1
D
C
B
A
NF26
ZJSR5101-333
+12V
C445
0.1uF
C446
100uF/16V
DGND
EARTH
A[21:0]
AO[20:0]
IC27
74LCX244
R80
47J
BR57
33JX4
C270
0.1uF
+3.3V
A20
A19
A18
A17
A16
AO20
AO19
AO18
AO17
AO16
1A1
1A2
1A3
1A4
2A1
2A2
2A3
2A4
1Y1
1Y2
1Y3
1Y4
2Y1
2Y2
2Y3
2Y4
1G
2G
IC34
74LCX244
BR85
33JX4
BR86
33JX4
A15
A14
A13
A12
A11
A10
A9
A8
AO15
AO14
AO13
AO12
AO11
AO10
AO9
AO8
C271
0.1uF
IC35
74LCX244
BR87
33JX4
BR88
33JX4
A7
A6
A5
A4
A3
A2
A1
A0
AO7
AO6
AO5
AO4
AO3
AO2
AO1
AO0
C336
0.1uF
IC26A
74VHC08_+3.3V
IC26B
74VHC08_+3.3V
15P
+3.3V
14Pin
74VHC08 用
C269
0.1uF
7Pin
BR83
10KJX4
BR84
10KJX4
BR89
33JX4
D[15:0]
DO[15:8]
IC42
74LCX245
D15
D14
D13
D12
D11
D10
D9
D8
DO15
DO14
DO13
DO12
DO11
DO10
DO9
DO8
G
DIR
C381
0.1uF
BR114
33JX4
IC26C
74VHC08_+3.3V
IC26D
74VHC08_+3.3V
/CS4
/CSIMAGE0
/CSIMAGE1
/RD
R116
47J
R142
47J
R195
10KJ
R158
10KJ
D42
DAN202U
D31
DAN202U
+5V
CN4
X_MIN_DIN_CON
R159
47J
R194
47J
R192
47J
R193
10KJ
D41
DAP202U
D32
DAP202U
C441
1000pF
C442
1000pF
C406
1000pF
Q31
DTC114YUA
10K Ω
47K Ω
IC32C
74LCX14_+3.3V
IC32E
74LCX14_+3.3V
IC32A
74LCX14_+3.3V
IC32D
74LCX14_+3.3V
IC32F
74LCX14_+3.3V
RXD_EXT
TXD_EXT
DSR_EXT

INPUT		FUNCTION		OUTPUT
G\	DIR	A BUS	B BUS	
L	L	OUTPUT	INPUT	A=B
L	H	INPUT	OUTPUT	B=A
H	X	Z	Z	Z

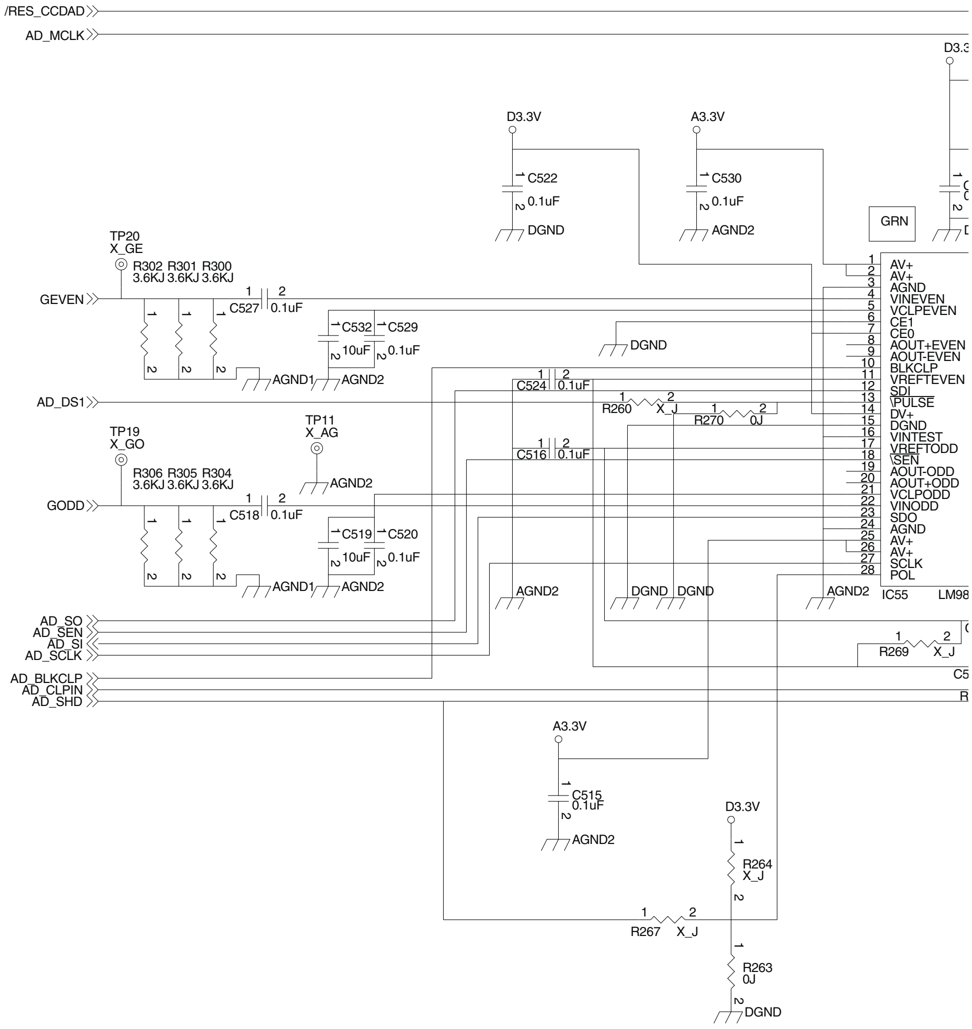
MFPC2 PWB (CCD A/D)



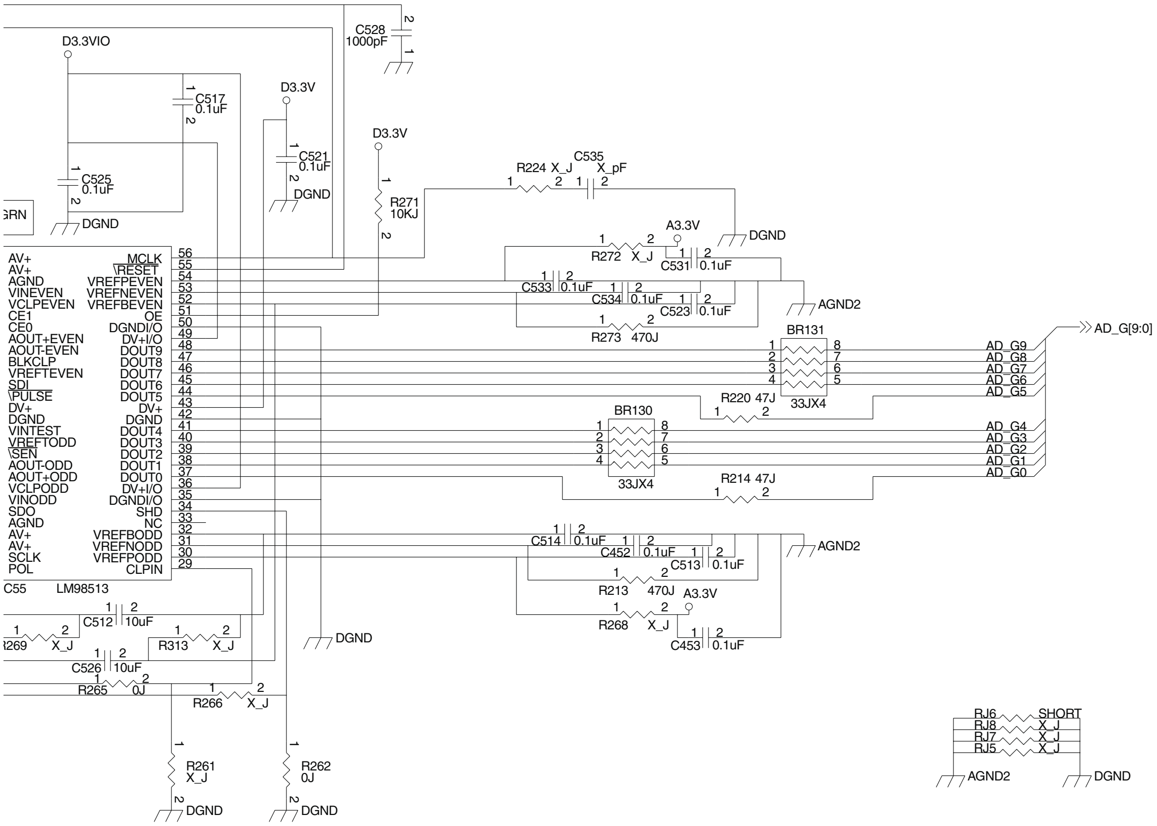
D57
DAN202U
D55
DAN202U
D56
DAN202U
+3.3V
K
A1
A2
K1
K2
A
D54
DAP202U
D52
DAP202U
D53
DAP202U
CN13
30FMZ-BT
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
+5V
+12V
BODD
BEVEN
GODD
GEVEN
RODD
REVEN
DGND
R199
0J
NF31
X_ZJSR5101-102
CCD_CLK1
R198
0J
NF30
X_ZJSR5101-102
CCD_CLK2
R202
0J
NF35
X_ZJSR5101-102
CCD_SH
R201
0J
NF33
X_ZJSR5101-102
CCD_RS
R200
0J
NF32
X_ZJSR5101-102
CCD_CP
/RES_CCDAD
AD_MCLK
D3
D3.3V
C463
47uF/10V
C546
0.1uF
DGND
A3.3V
C464
47uF/10V
C554
0.1uF
AGND1
RED
TP22
X_RE
R296
3.6KJ
R295
3.6KJ
R294
3.6KJ
REVEN
C551 0.1uF
C556
10uF
C553
0.1uF
AGND1
DGND
C548
0.1uF
R274
X_J
R284
0J
AD_DS1
C540
0.1uF
TP21
X_RO
TP13
X_AG
R299
3.6KJ
R298
3.6KJ
R297
3.6KJ
RODD
C542 0.1uF
C543
10uF
C544
0.1uF
AGND1
AD_SO
AD_SEN
AD_SI
AD_SCLK
AD_BLKCLP
AD_CLPIN
AD_SHD
AV+
AV+
AGND
VINEVEN
VCLPEVE
CE1
CE0
AOUT+EV
AOUT-EV
BLKCLP
VREFTEV
SDI
\PULSE
DV+
DGND
VINTEST
VREFTOD
\SEN
AOUT-OD
AOUT+OD
VCLPODD
VINODD
SDO
AGND
AV+
AV+
SCLK
POL
IC56
R283
X_
A3.3V
C466
47uF/10V
C539
0.1uF
AGND1
D3.3V
R278
X_J
R281
X_J
R277
0J
DGND
8
7
6
5
D
C
B
A


D3.3VIO
C552
1000pF
C541
0.1uF
D3.3V
C545
0.1uF
DGND
D3.3V
R285
10KJ
C461
47uF/10V
C549
0.1uF
DGND
RED
R228 X_J
C559
X_pF
DGND
A3.3V
R286
X_J
C555
0.1uF
C557
0.1uF
C558
0.1uF
C547
0.1uF
AGND1
R287
470J
BR133
33JX4
AD_R[9:0]
AD_R9
AD_R8
AD_R7
AD_R6
AD_R5
R227 47J
BR132
33JX4
AD_R4
AD_R3
AD_R2
AD_R1
AD_R0
R226 47J
AV+
AV+
AGND
VINEVEN
VCLPEVEN
CE1
CE0
AOUT+EVEN
AOUT-EVEN
BLKCLP
VREFTEVEN
SDI
\PULSE
DV+
DGND
VINTEST
VREFTODD
\SEN
AOUT-ODD
AOUT+ODD
VCLPODD
VINODD
SDO
AGND
AV+
AV+
SCLK
POL
MCLK
\RESET
VREFPEVEN
VREFNEVEN
VREFBEVEN
OE
DGNDI/O
DV+I/O
DOUT9
DOUT8
DOUT7
DOUT6
DOUT5
DV+
DGND
DOUT4
DOUT3
DOUT2
DOUT1
DOUT0
DV+I/O
DGNDI/O
SHD
NC
VREFBODD
VREFNODD
VREFPODD
CLPIN
IC56
LM98513
C538
0.1uF
C458
0.1uF
C537
0.1uF
AGND1
R225
470J
A3.3V
R282
X_J
C460
0.1uF
C536
10uF
R283
X_J
R314
X_J
DGND
C550
10uF
R279
0J
R280
X_J
R275
X_J
DGND
R276
0J
DGND
RJ10
SHORT
RJ12
X_J
RJ11
X_J
RJ9
X_J
AGND1
DGND

MFPC2 PWB (CCD A/D)

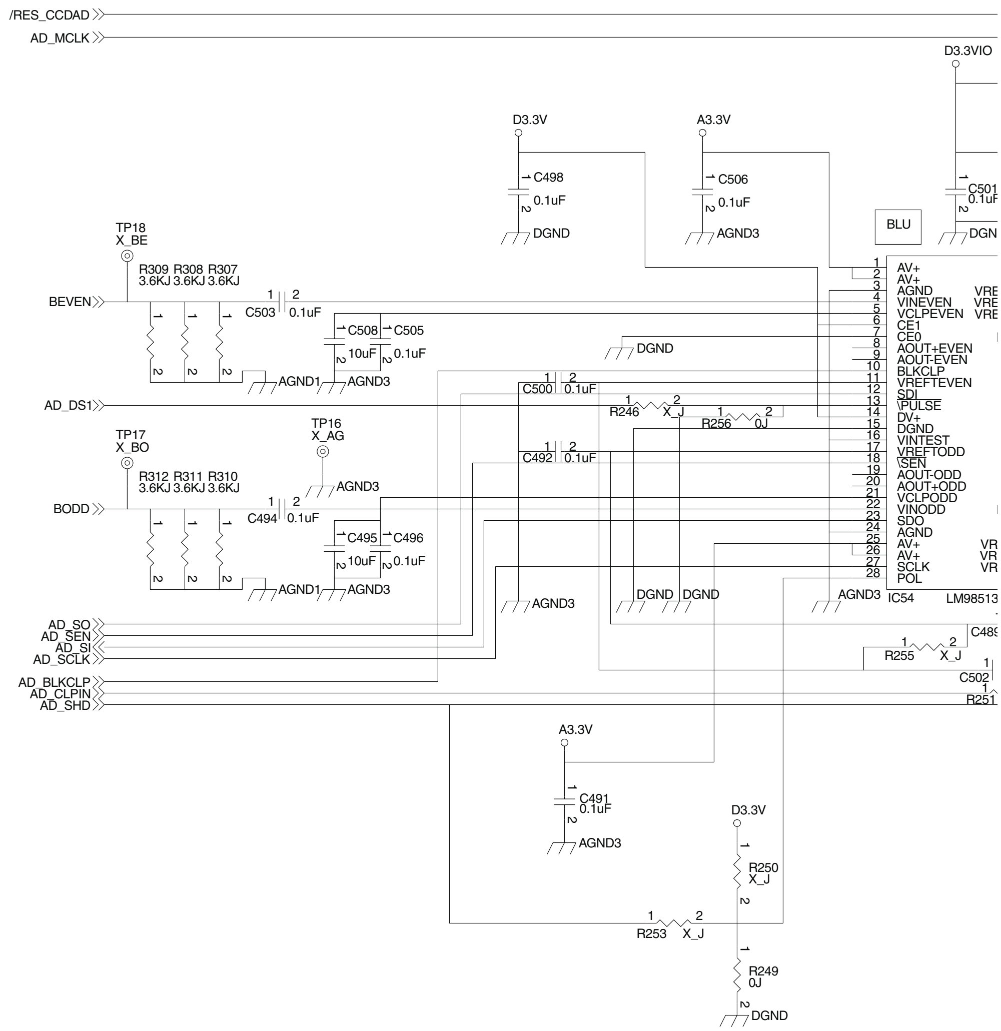


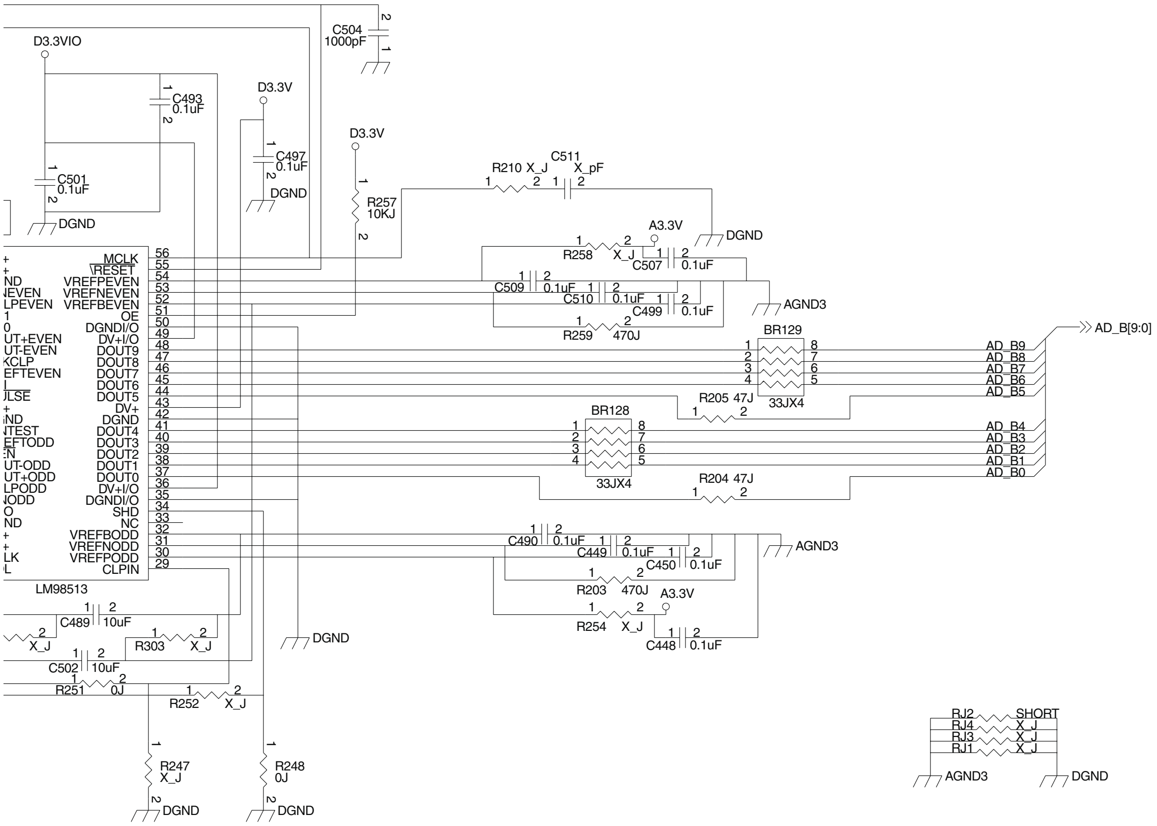
/RES_CCDAD
AD_MCLK
D3.3V
A3.3V
C522
0.1uF
DGND
C530
0.1uF
AGND2
GRN
TP20
X_GE
R302 R301 R300
3.6KJ 3.6KJ 3.6KJ
GEVEN
C527
0.1uF
C532
10uF
C529
0.1uF
AGND1
AGND2
DGND
C524
0.1uF
AD_DS1
R260
X_J
R270
0J
TP19
X_GO
TP11
X_AG
C516
0.1uF
R306 R305 R304
3.6KJ 3.6KJ 3.6KJ
GODD
C518
0.1uF
C519
10uF
C520
0.1uF
AV+
AV+
AGND
VINEVEN
VCLPEVEN
CE1
CE0
AOUT+EVEN
AOUT-EVEN
BLKCLP
VREFTEVEN
SDI
\PULSE
DV+
DGND
VINTEST
VREFTODD
\SEN
AOUT-ODD
AOUT+ODD
VCLPODD
VINODD
SDO
AGND
AV+
AV+
SCLK
POL
IC55
LM98
AD_SO
AD_SEN
AD_SI
AD_SCLK
AD_BLKCLP
AD_CLPIN
AD_SHD
R269
X_J
C515
0.1uF
R264
X_J
R267
X_J
R263
0J



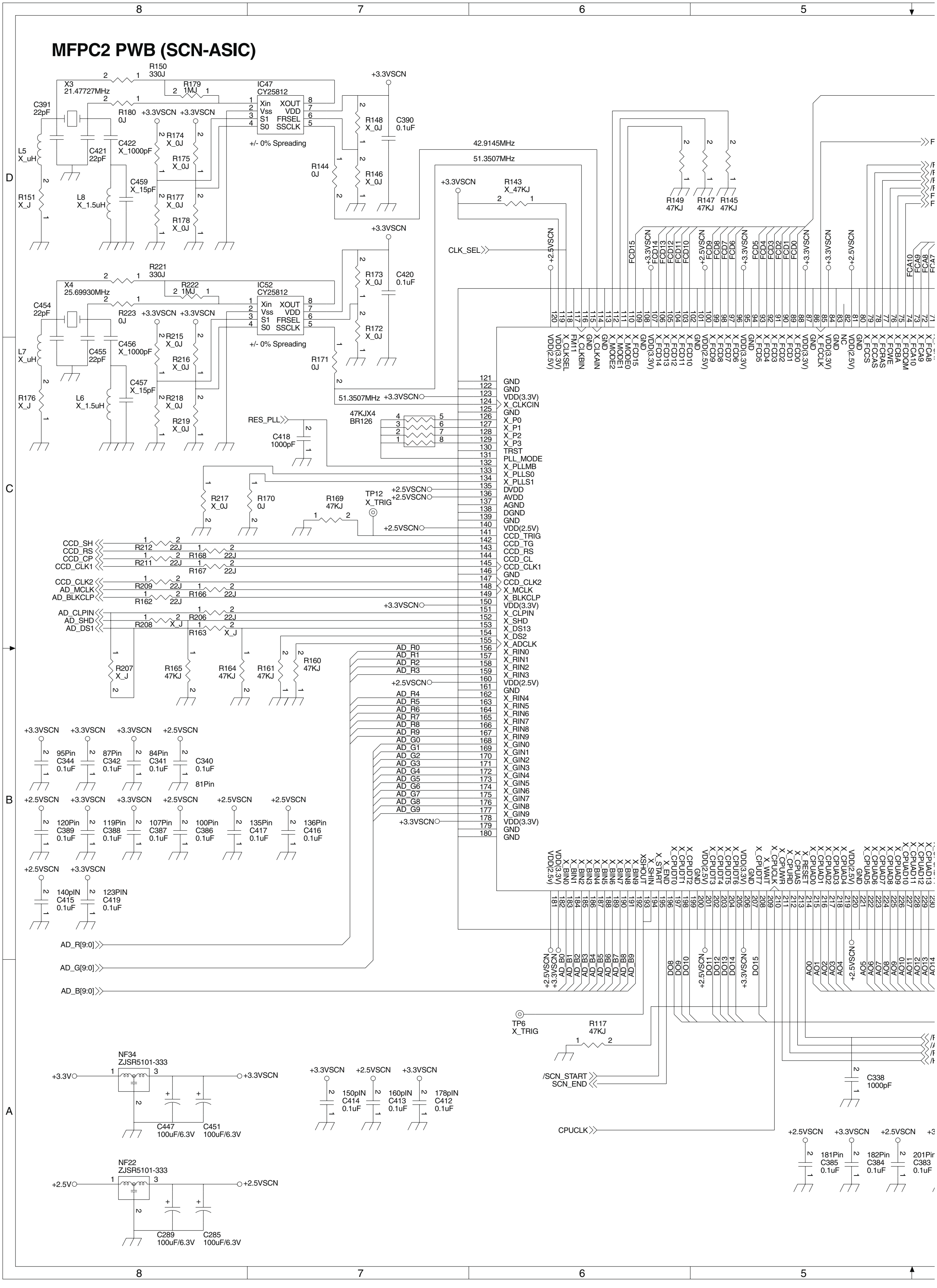
C528
1000pF
D3.3VIO
C517
0.1uF
D3.3V
C521
0.1uF
DGND
D3.3V
R271
10KJ
C525
0.1uF
GRN
DGND
R224 X_J
C535
X_pF
DGND
A3.3V
R272 X_J
C531 0.1uF
C533 0.1uF
C534 0.1uF
C523 0.1uF
AGND2
R273 470J
BR131
33JX4
AD_G[9:0]
AD_G9
AD_G8
AD_G7
AD_G6
AD_G5
R220 47J
BR130
33JX4
AD_G4
AD_G3
AD_G2
AD_G1
AD_G0
R214 47J
AV+
AV+
AGND
VINEVEN
VCLPEVEN
CE1
CE0
AOUT+EVEN
AOUT-EVEN
BLKCLP
VREFTEVEN
SDI
\PULSE
DV+
DGND
VINTEST
VREFTODD
\SEN
AOUT-ODD
AOUT+ODD
VCLPODD
VINODD
SDO
AGND
AV+
AV+
SCLK
POL
MCLK
\RESET
VREFPEVEN
VREFNEVEN
VREFBEVEN
OE
DGNDI/O
DV+I/O
DOUT9
DOUT8
DOUT7
DOUT6
DOUT5
DV+
DGND
DOUT4
DOUT3
DOUT2
DOUT1
DOUT0
DV+I/O
DGNDI/O
SHD
NC
VREFBODD
VREFNODD
VREFPODD
CLPIN
C55
LM98513
C514 0.1uF
C452 0.1uF
C513 0.1uF
AGND2
R213 470J
A3.3V
R268 X_J
C453 0.1uF
C512 10uF
R269 X_J
R313 X_J
DGND
C526 10uF
R265 0J
R266 X_J
R261
X_J
R262
0J
DGND
DGND
RJ6 SHORT
RJ8 X_J
RJ7 X_J
RJ5 X_J
AGND2
DGND

MFPC2 PWB (CCD A/D)

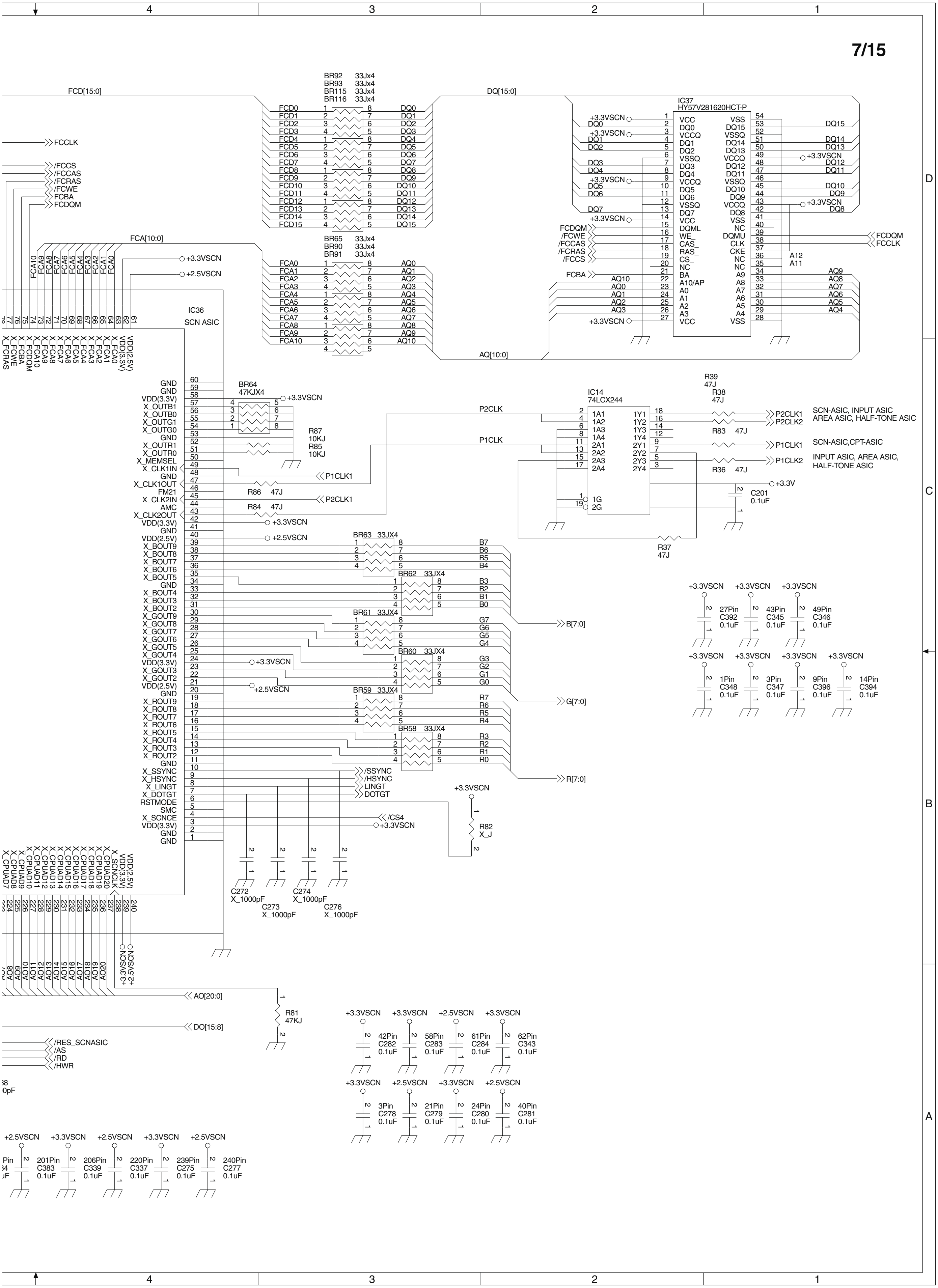

/RES_CCDAD
AD_MCLK
D3.3VIO
D3.3V
C498
0.1uF
DGND
A3.3V
C506
0.1uF
AGND3
C501
0.1uF
BLU
TP18
X_BE
R309 R308 R307
3.6KJ 3.6KJ 3.6KJ
BEVEN
C503
0.1uF
C508
10uF
C505
0.1uF
AGND1
AGND3
DGND
C500
0.1uF
AD_DS1
R246
X_J
R256
0J
TP17
X_BO
TP16
X_AG
C492
0.1uF
AGND3
R312 R311 R310
3.6KJ 3.6KJ 3.6KJ
BODD
C494
0.1uF
C495
10uF
C496
0.1uF
AGND1
AGND3
AD_SO
AD_SEN
AD_SI
AD_SCLK
AD_BLKCLP
AD_CLPIN
AD_SHD
AGND3
DGND DGND
AGND3
IC54
LM98513
1 AV+
2 AV+
3 AGND
4 VINEVEN
5 VCLPEVEN
6 CE1
7 CE0
8 AOUT+EVEN
9 AOUT-EVEN
10 BLKCLP
11 VREFTEVEN
12 SDI
13 \PULSE
14 DV+
15 DGND
16 VINTEST
17 VREFTODD
18 \SEN
19 AOUT-ODD
20 AOUT+ODD
21 VCLPODD
22 VINODD
23 SDO
24 AGND
25 AV+
26 AV+
27 SCLK
28 POL
C489
R255
X_J
C502
R251
A3.3V
C491
0.1uF
AGND3
D3.3V
R250
X_J
R253
X_J
R249
0J
DGND


D3.3VIO
C504
1000pF
C493
0.1uF
D3.3V
C497
0.1uF
DGND
D3.3V
R257
10KJ
C501
0.1uF
DGND
R210 X_J
C511
X_pF
DGND
R258
X_J
A3.3V
C507
0.1uF
C509
0.1uF
C510
0.1uF
C499
0.1uF
AGND3
R259
470J
BR129
33JX4
AD_B[9:0]
AD_B9
AD_B8
AD_B7
AD_B6
AD_B5
R205 47J
BR128
33JX4
AD_B4
AD_B3
AD_B2
AD_B1
AD_B0
R204 47J
MCLK
\RESET
VREFPEVEN
VREFNEVEN
VREFBEVEN
OE
DGNDI/O
DV+I/O
DOUT9
DOUT8
DOUT7
DOUT6
DOUT5
DV+
DGND
DOUT4
DOUT3
DOUT2
DOUT1
DOUT0
DV+I/O
DGNDI/O
SHD
NC
VREFBODD
VREFNODD
VREFPODD
CLPIN
LM98513
C490
0.1uF
C449
0.1uF
C450
0.1uF
AGND3
R203
470J
A3.3V
R254
X_J
C448
0.1uF
C489
10uF
X_J
R303
X_J
C502
10uF
R251
0J
R252
X_J
DGND
R247
X_J
DGND
R248
0J
DGND
RJ2
SHORT
RJ4
X_J
RJ3
X_J
RJ1
X_J
AGND3
DGND

MFPC2 PWB (SCN-ASIC)

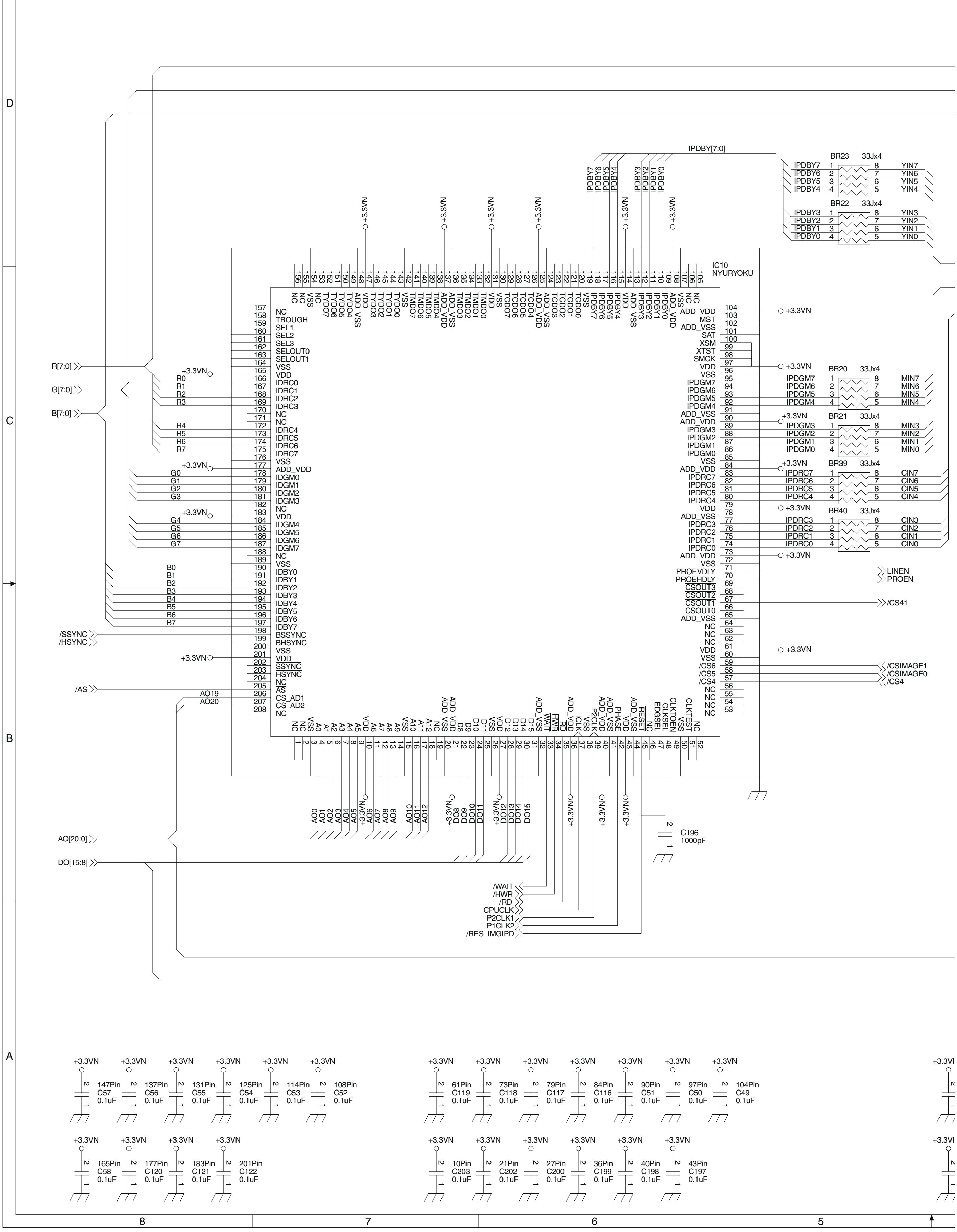


8
7
6
5
D
C
B
A
R150
330J
X3
21.47727MHz
R179
1MJ
IC47
CY25812
Xin XOUT
Vss VDD
S1 FRSEL
S0 SSCLK
+/- 0% Spreading
+3.3VSCN
C391
22pF
R180
0J
R174
X_0J
R148
X_0J
C390
0.1uF
L5
X_uH
C421
22pF
C422
X_1000pF
R175
X_0J
42.9145MHz
51.3507MHz
R144
0J
R146
X_0J
C459
X_15pF
R151
X_J
L8
X_1.5uH
R177
X_0J
R178
X_0J
R143
X_47KJ
R149
47KJ
R147
47KJ
R145
47KJ
CLK_SEL
R221
330J
X4
25.69930MHz
R222
1MJ
IC52
CY25812
R173
X_0J
C420
0.1uF
C454
22pF
R223
0J
R215
X_0J
R172
X_0J
L7
X_uH
C455
22pF
C456
X_1000pF
R216
X_0J
R171
0J
C457
X_15pF
R176
X_J
L6
X_1.5uH
R218
X_0J
R219
X_0J
RES_PLL
C418
1000pF
47KJX4
BR126
R217
X_0J
R170
0J
R169
47KJ
TP12
X_TRIG
+2.5VSCN
CCD_SH
CCD_RS
CCD_CP
CCD_CLK1
CCD_CLK2
AD_MCLK
AD_BLKCLP
AD_CLPIN
AD_SHD
AD_DS1
R212 22J
R168 22J
R211 22J
R167 22J
R209 22J
R166 22J
R162 22J
R206 22J
R208 X_J
R163 X_J
R207
X_J
R165
47KJ
R164
47KJ
R161
47KJ
R160
47KJ
AD_R0
AD_R1
AD_R2
AD_R3
AD_R4
AD_R5
AD_R6
AD_R7
AD_R8
AD_R9
AD_G0
AD_G1
AD_G2
AD_G3
AD_G4
AD_G5
AD_G6
AD_G7
AD_G8
AD_G9
121 GND
122 GND
123 VDD(3.3V)
124 X_CLKCIN
125 GND
126 X_P0
127 X_P1
128 X_P2
129 X_P3
130 TRST
131 PLL_MODE
132 X_PLLMB
133 X_PLLS0
134 X_PLLS1
135 DVDD
136 AVDD
137 AGND
138 DGND
139 GND
140 VDD(2.5V)
141 CCD_TRIG
142 CCD_TG
143 CCD_RS
144 CCD_CL
145 CCD_CLK1
146 GND
147 CCD_CLK2
148 X_MCLK
149 X_BLKCLP
150 VDD(3.3V)
151 X_CLPIN
152 X_SHD
153 X_DS13
154 X_DS2
155 X_ADCLK
156 X_RIN0
157 X_RIN1
158 X_RIN2
159 X_RIN3
160 VDD(2.5V)
161 GND
162 X_RIN4
163 X_RIN5
164 X_RIN6
165 X_RIN7
166 X_RIN8
167 X_RIN9
168 X_GIN0
169 X_GIN1
170 X_GIN2
171 X_GIN3
172 X_GIN4
173 X_GIN5
174 X_GIN6
175 X_GIN7
176 X_GIN8
177 X_GIN9
178 VDD(3.3V)
179 GND
180 GND
120 VDD(2.5V)
119 VDD(3.3V)
118 X_CLKSEL
117 FM11
116 X_CLKBIN
115 GND
114 X_CLKAIN
113 GND
112 X_MODE2
111 X_MODE1
110 X_MODE0
109 X_FCD15
108 GND
107 VDD(3.3V)
106 X_FCD14
105 X_FCD13
104 X_FCD12
103 X_FCD11
102 X_FCD10
101 GND
100 VDD(2.5V)
99 X_FCD9
98 X_FCD8
97 X_FCD7
96 X_FCD6
95 VDD(3.3V)
94 GND
93 X_FCD5
92 X_FCD4
91 X_FCD3
90 X_FCD2
89 X_FCD1
88 X_FCD0
87 VDD(3.3V)
86 GND
85 X_FCCLK
84 VDD(3.3V)
83 GND
82 NC
81 VDD(2.5V)
80 GND
79 X_FCCS
78 X_FCCAS
77 X_FCRAS
76 X_FCWE
75 X_FCBA
74 X_FCDQM
73 X_FCA10
72 X_FCA9
FCD15
FCD14
FCD13
FCD12
FCD11
FCD10
FCD9
FCD8
FCD7
FCD6
FCD5
FCD4
FCD3
FCD2
FCD1
FCD0
FCA10
FCA9
FCA8
FCA7
181 VDD(2.5v)
182 VDD(3.3V)
183 X_BIN0
184 X_BIN1
185 X_BIN2
186 X_BIN3
187 X_BIN4
188 X_BIN5
189 X_BIN6
190 X_BIN7
191 X_BIN8
192 X_BIN9
193 XSHOUT
194 X_SHIN
195 X_START
196 X_END
197 X_CPUDT0
198 X_CPUDT1
199 X_CPUDT2
200 GND
201 VDD(2.5V)
202 X_CPUDT3
203 X_CPUDT4
204 X_CPUDT5
205 X_CPUDT6
206 VDD(3.3V)
207 GND
208 X_CPUDT7
209 X_WAIT
210 X_CPUCLK
211 X_CPUWR
212 X_CPURD
213 X_CPUAS
214 X_RESET
215 X_CPUAD0
216 X_CPUAD1
217 X_CPUAD2
218 X_CPUAD3
219 X_CPUAD4
220 VDD(2.5V)
221 GND
222 X_CPUAD5
223 X_CPUAD6
224 X_CPUAD7
225 X_CPUAD8
226 X_CPUAD9
227 X_CPUAD10
228 X_CPUAD11
229 X_CPUAD12
230 X_CPUAD13
AD_B0
AD_B1
AD_B2
AD_B3
AD_B4
AD_B5
AD_B6
AD_B7
AD_B8
AD_B9
DO8
DO9
DO10
DO11
DO12
DO13
DO14
DO15
AO0
AO1
AO2
AO3
AO4
AO5
AO6
AO7
AO8
AO9
AO10
AO11
AO12
AO13
AO14
AD_R[9:0]
AD_G[9:0]
AD_B[9:0]
TP6
X_TRIG
R117
47KJ
/SCN_START
SCN_END
CPUCLK
C338
1000pF
95Pin C344 0.1uF
87Pin C342 0.1uF
84Pin C341 0.1uF
C340 0.1uF 81Pin
120Pin C389 0.1uF
119Pin C388 0.1uF
107Pin C387 0.1uF
100Pin C386 0.1uF
135Pin C417 0.1uF
136Pin C416 0.1uF
140pIN C415 0.1uF
123PIN C419 0.1uF
150pIN C414 0.1uF
160pIN C413 0.1uF
178pIN C412 0.1uF
181Pin C385 0.1uF
182Pin C384 0.1uF
201Pin C383 0.1uF
NF34
ZJSR5101-333
+3.3V
C447 100uF/6.3V
C451 100uF/6.3V
NF22
ZJSR5101-333
+2.5V
C289 100uF/6.3V
C285 100uF/6.3V

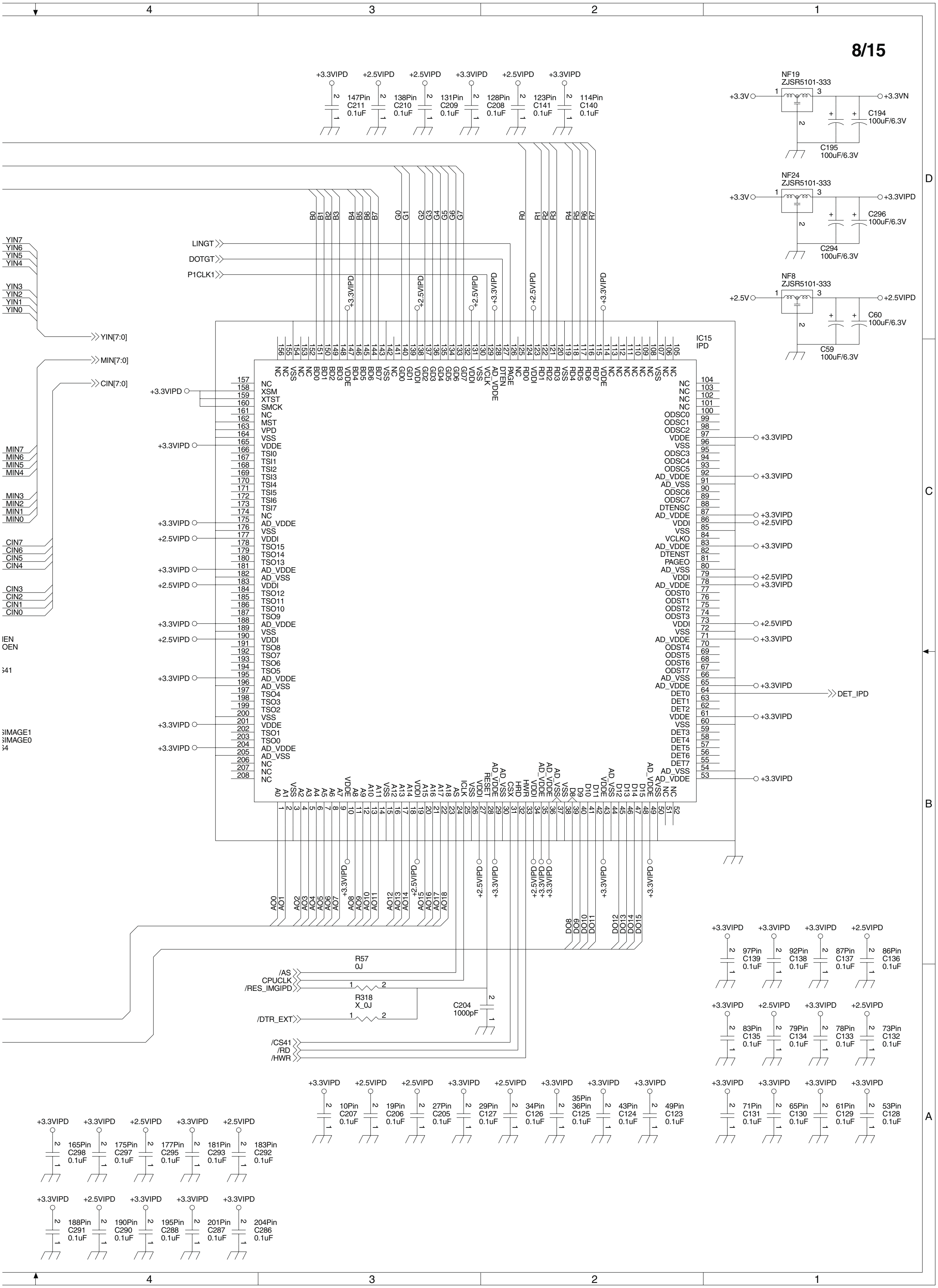


4
3
2
1
D
C
B
A
FCD[15:0]
DQ[15:0]
BR92 33Jx4
BR93 33Jx4
BR115 33Jx4
BR116 33Jx4
IC37
HY57V281620HCT-P
FCCLK
/FCCS
/FCCAS
/FCRAS
/FCWE
FCBA
FCDQM
FCA[10:0]
BR65 33Jx4
BR90 33Jx4
BR91 33Jx4
+3.3VSCN
+2.5VSCN
IC36
SCN ASIC
AQ[10:0]
FCDQM
FCCLK
A12
A11
BR64
47KJX4
R87
10KJ
R85
10KJ
P1CLK1
P2CLK1
R86 47J
R84 47J
P2CLK
P1CLK
IC14
74LCX244
R39
47J
R38
47J
R83 47J
R36 47J
P2CLK1
P2CLK2
P1CLK1
P1CLK2
SCN-ASIC, INPUT ASIC
AREA ASIC, HALF-TONE ASIC
SCN-ASIC,CPT-ASIC
INPUT ASIC, AREA ASIC,
HALF-TONE ASIC
+3.3V
C201
0.1uF
R37
47J
BR63 33JX4
BR62 33JX4
BR61 33JX4
BR60 33JX4
BR59 33JX4
BR58 33JX4
B[7:0]
G[7:0]
R[7:0]
/SSYNC
/HSYNC
LINGT
DOTGT
/CS4
R82
X_J
C272
X_1000pF
C273
X_1000pF
C274
X_1000pF
C276
X_1000pF
27Pin C392 0.1uF
43Pin C345 0.1uF
49Pin C346 0.1uF
1Pin C348 0.1uF
3Pin C347 0.1uF
9Pin C396 0.1uF
14Pin C394 0.1uF
AO[20:0]
DO[15:8]
R81
47KJ
/RES_SCNASIC
/AS
/RD
/HWR
42Pin C282 0.1uF
58Pin C283 0.1uF
61Pin C284 0.1uF
62Pin C343 0.1uF
3Pin C278 0.1uF
21Pin C279 0.1uF
24Pin C280 0.1uF
40Pin C281 0.1uF
201Pin C383 0.1uF
206Pin C339 0.1uF
220Pin C337 0.1uF
239Pin C275 0.1uF
240Pin C277 0.1uF

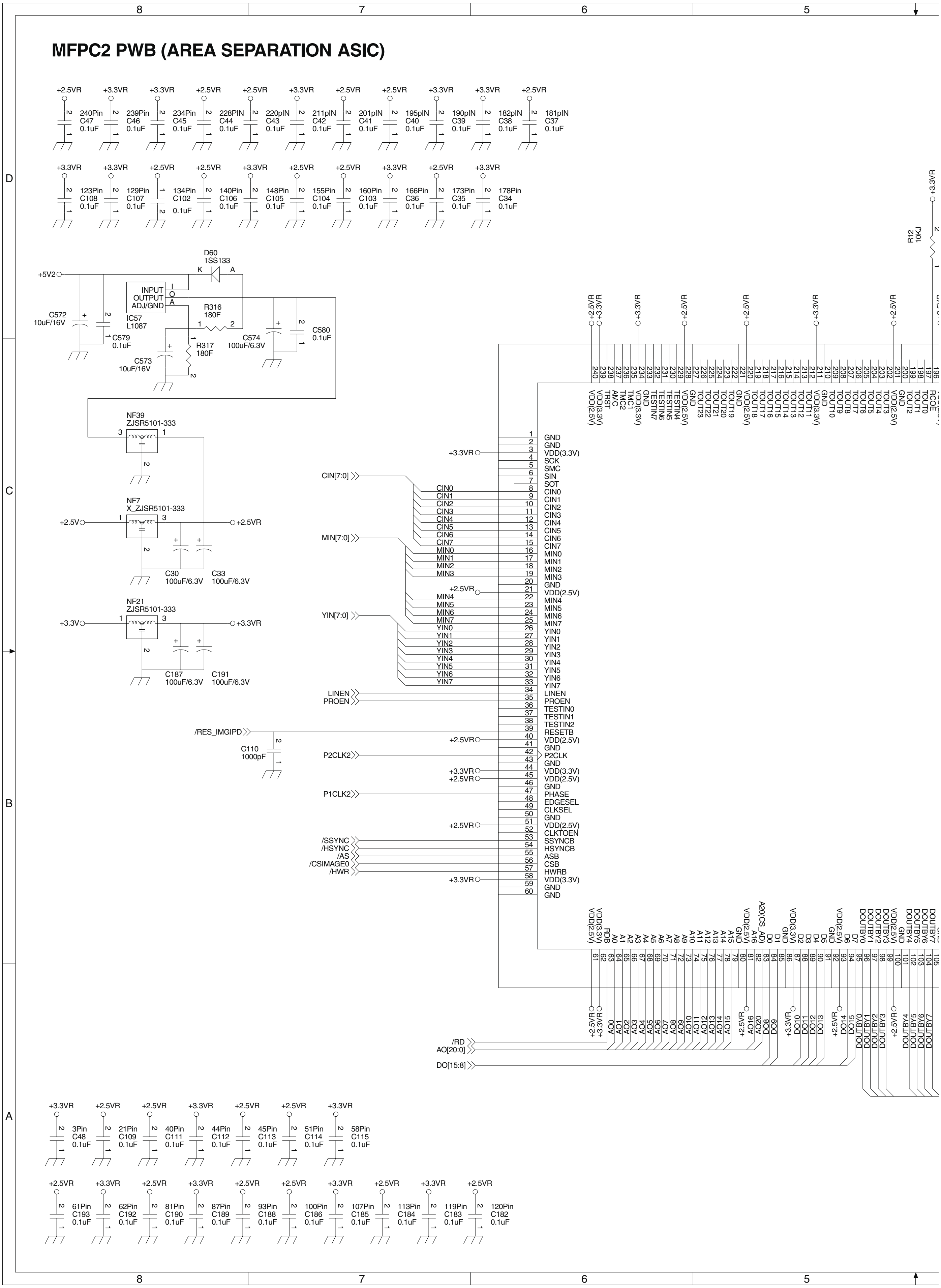
MFPC2 PWB (INPUT PROCESS ASIC, IPD-ASIC)

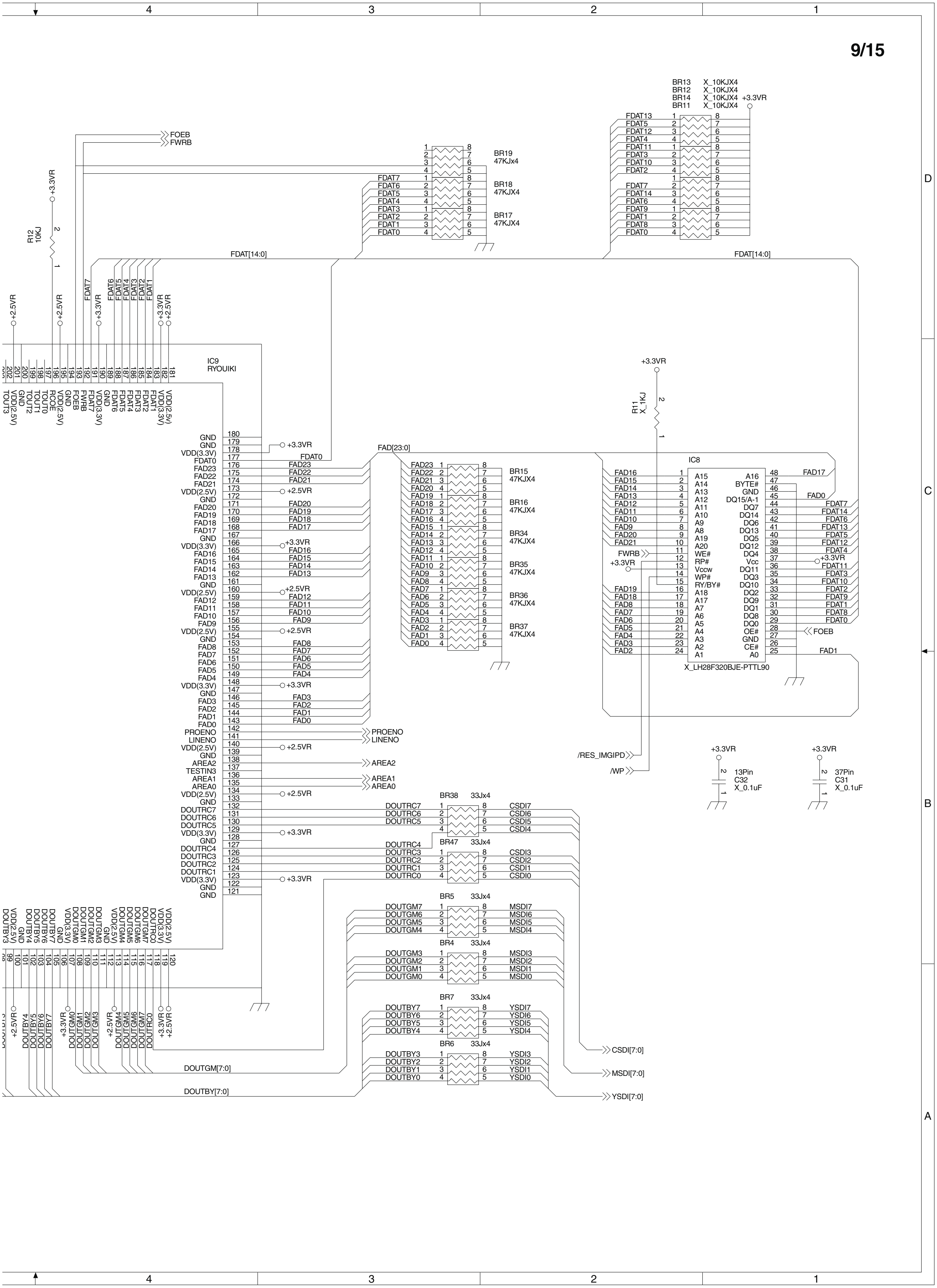


IC10
NYURYOKU
IPDBY[7:0]
BR23 33Jx4
BR22 33Jx4
BR20 33Jx4
BR21 33Jx4
BR39 33Jx4
BR40 33Jx4
IPDBY7 IPDBY6 IPDBY5 IPDBY4 → YIN7 YIN6 YIN5 YIN4
IPDBY3 IPDBY2 IPDBY1 IPDBY0 → YIN3 YIN2 YIN1 YIN0
IPDGM7 IPDGM6 IPDGM5 IPDGM4 → MIN7 MIN6 MIN5 MIN4
IPDGM3 IPDGM2 IPDGM1 IPDGM0 → MIN3 MIN2 MIN1 MIN0
IPDRC7 IPDRC6 IPDRC5 IPDRC4 → CIN7 CIN6 CIN5 CIN4
IPDRC3 IPDRC2 IPDRC1 IPDRC0 → CIN3 CIN2 CIN1 CIN0
R[7:0]
G[7:0]
B[7:0]
R0 R1 R2 R3 R4 R5 R6 R7
G0 G1 G2 G3 G4 G5 G6 G7
B0 B1 B2 B3 B4 B5 B6 B7
/SSYNC
/HSYNC
/AS
AO19
AO20
AO[20:0]
DO[15:8]
+3.3VN
157 NC
158 TROUGH
159 SEL1
160 SEL2
161 SEL3
162 SELOUT0
163 SELOUT1
164 VSS
165 VDD
166 IDRC0
167 IDRC1
168 IDRC2
169 IDRC3
170 NC
171 NC
172 IDRC4
173 IDRC5
174 IDRC6
175 IDRC7
176 VSS
177 ADD_VDD
178 IDGM0
179 IDGM1
180 IDGM2
181 IDGM3
182 NC
183 VDD
184 IDGM4
185 IDGM5
186 IDGM6
187 IDGM7
188 NC
189 VSS
190 IDBY0
191 IDBY1
192 IDBY2
193 IDBY3
194 IDBY4
195 IDBY5
196 IDBY6
197 IDBY7
198 BSSYNC
199 BHSYNC
200 VSS
201 VDD
202 SSYNC
203 HSYNC
204 NC
205 AS
206 CS_AD1
207 CS_AD2
208 NC
104 ADD_VDD
103 MST
102 ADD_VSS
101 SAT
100 XTST
99 XSM
98 SMCK
97 VDD
96 VSS
95 IPDGM7
94 IPDGM6
93 IPDGM5
92 IPDGM4
91 ADD_VSS
90 ADD_VDD
89 IPDGM3
88 IPDGM2
87 IPDGM1
86 IPDGM0
85 VSS
84 ADD_VDD
83 IPDRC7
82 IPDRC6
81 IPDRC5
80 IPDRC4
79 VDD
78 ADD_VSS
77 IPDRC3
76 IPDRC2
75 IPDRC1
74 IPDRC0
73 ADD_VDD
72 VSS
71 PROEVDLY
70 PROEHDLY
69 CSOUT3
68 CSOUT2
67 CSOUT1
66 CSOUT0
65 ADD_VSS
64 NC
63 NC
62 NC
61 VDD
60 VSS
59 /CS6
58 /CS5
57 /CS4
56 NC
55 NC
54 NC
53 NC
156 NC
155 NC
154 VSS
153 NC
152 TYDO7
151 TYDO6
150 TYDO5
149 TYDO4
148 ADD_VSS
147 VDD
146 TYDO3
145 TYDO2
144 TYDO1
143 TYDO0
142 VSS
141 TMDO7
140 TMDO6
139 TMDO5
138 TMDO4
137 ADD_VDD
136 ADD_VSS
135 TMDO3
134 TMDO2
133 TMDO1
132 TMDO0
131 VDD
130 VSS
129 TCDO7
128 TCDO6
127 TCDO5
126 TCDO4
125 ADD_VDD
124 ADD_VSS
123 TCDO3
122 TCDO2
121 TCDO1
120 TCDO0
119 VSS
118 IPDBY7
117 IPDBY6
116 IPDBY5
115 IPDBY4
114 VDD
113 ADD_VSS
112 IPDBY3
111 IPDBY2
110 IPDBY1
109 IPDBY0
108 ADD_VDD
107 VSS
106 NC
105 NC
1 NC
2 NC
3 VSS
4 A0
5 A1
6 A2
7 A3
8 A4
9 A5
10 VDD
11 A6
12 A7
13 A8
14 A9
15 VSS
16 A10
17 A11
18 A12
19 NC
20 ADD_VDD
21 ADD_VSS
22 D8
23 D9
24 D10
25 D11
26 VSS
27 VDD
28 D12
29 D13
30 D14
31 D15
32 ADD_VSS
33 WAIT
34 HWR
35 RD
36 ADD_VDD
37 ICLK
38 VSS
39 P2CLK
40 ADD_VDD
41 ADD_VSS
42 PHASE
43 VDD
44 ADD_VSS
45 RESET
46 NC
47 EDGSEL
48 CLKSEL
49 CLKTOEN
50 VSS
51 CLKTEST
52 NC
LINEN
PROEN
/CS41
/CSIMAGE1
/CSIMAGE0
/CS4
AO0 AO1 AO2 AO3 AO4 AO5 AO6 AO7 AO8 AO9 AO10 AO11 AO12
DO8 DO9 DO10 DO11 DO12 DO13 DO14 DO15
C196
1000pF
/WAIT
/HWR
/RD
CPUCLK
P2CLK1
P1CLK2
/RES_IMGIPD
147Pin C57 0.1uF
137Pin C56 0.1uF
131Pin C55 0.1uF
125Pin C54 0.1uF
114Pin C53 0.1uF
108Pin C52 0.1uF
61Pin C119 0.1uF
73Pin C118 0.1uF
79Pin C117 0.1uF
84Pin C116 0.1uF
90Pin C51 0.1uF
97Pin C50 0.1uF
104Pin C49 0.1uF
165Pin C58 0.1uF
177Pin C120 0.1uF
183Pin C121 0.1uF
201Pin C122 0.1uF
10Pin C203 0.1uF
21Pin C202 0.1uF
27Pin C200 0.1uF
36Pin C199 0.1uF
40Pin C198 0.1uF
43Pin C197 0.1uF
8 7 6 5
D C B A

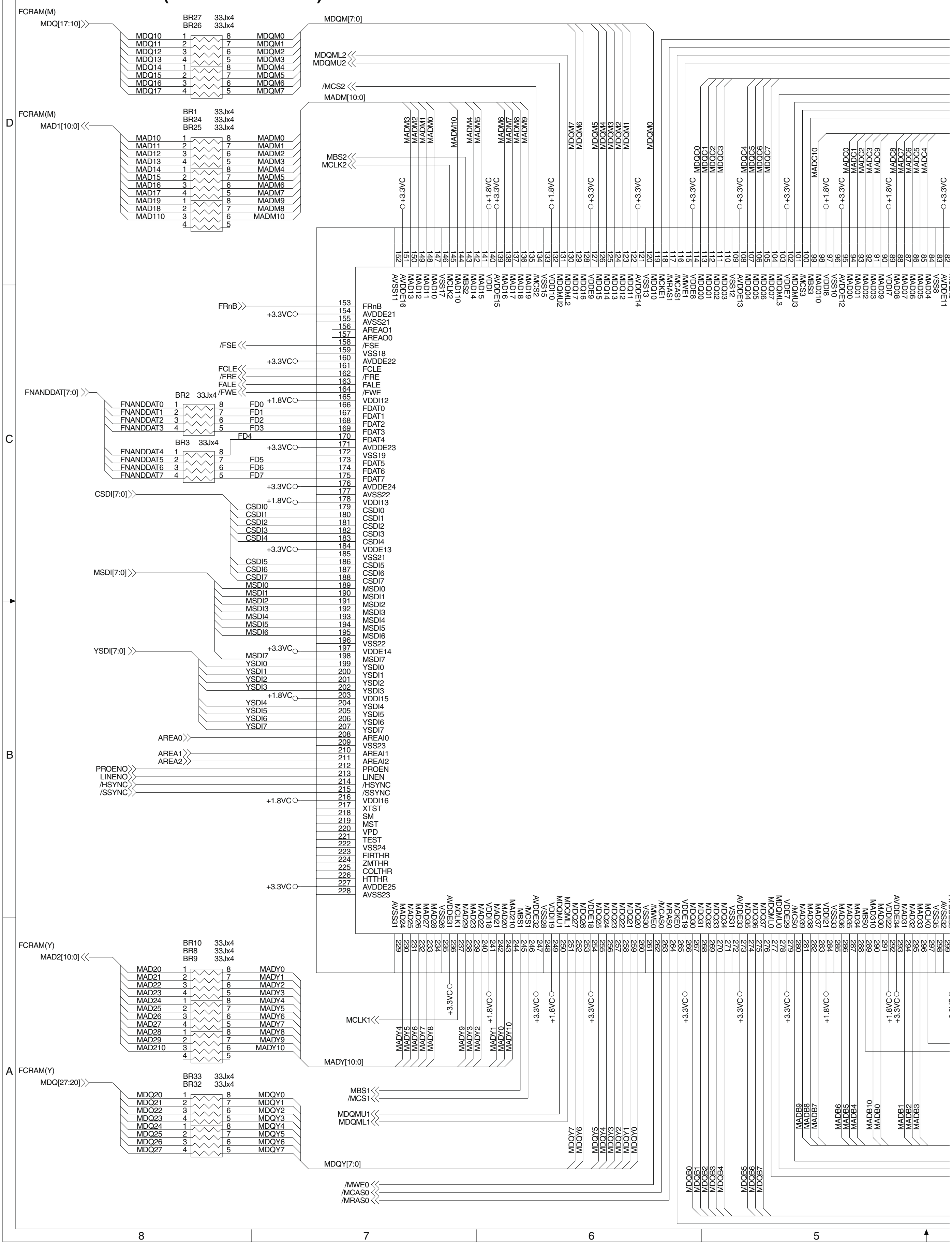

8/15
IC15
IPD
NF19
ZJSR5101-333
+3.3V
+3.3VN
C194
100uF/6.3V
C195
100uF/6.3V
NF24
ZJSR5101-333
+3.3V
+3.3VIPD
C296
100uF/6.3V
C294
100uF/6.3V
NF8
ZJSR5101-333
+2.5V
+2.5VIPD
C60
100uF/6.3V
C59
100uF/6.3V
147Pin C211 0.1uF
138Pin C210 0.1uF
131Pin C209 0.1uF
128Pin C208 0.1uF
123Pin C141 0.1uF
114Pin C140 0.1uF
B0 B1 B2 B3 B4 B5 B6 B7
G0 G1 G2 G3 G4 G5 G6 G7
R0 R1 R2 R3 R4 R5 R6 R7
LINGT
DOTGT
P1CLK1
YIN7 YIN6 YIN5 YIN4 YIN3 YIN2 YIN1 YIN0
YIN[7:0]
MIN[7:0]
CIN[7:0]
MIN7 MIN6 MIN5 MIN4 MIN3 MIN2 MIN1 MIN0
CIN7 CIN6 CIN5 CIN4 CIN3 CIN2 CIN1 CIN0
IEN
OEN
S41
SIMAGE1
SIMAGE0
S4
NC XSM XTST SMCK NC MST VPD VSS VDDE TSI0 TSI1 TSI2 TSI3 TSI4 TSI5 TSI6 TSI7 NC AD_VDDE VSS VDDI TSO15 TSO14 TSO13 AD_VDDE AD_VSS VDDI TSO12 TSO11 TSO10 TSO9 AD_VDDE VSS VDDI TSO8 TSO7 TSO6 TSO5 AD_VDDE AD_VSS TSO4 TSO3 TSO2 VSS VDDE TSO1 TSO0 AD_VDDE AD_VSS NC NC NC
NC NC NC NC ODSC0 ODSC1 ODSC2 VDDE VSS ODSC3 ODSC4 ODSC5 AD_VDDE AD_VSS ODSC6 ODSC7 DTENSC AD_VDDE VDDI VSS VCLKO AD_VDDE DTENST PAGEO AD_VSS VDDI AD_VDDE ODST0 ODST1 ODST2 ODST3 VDDI VSS AD_VDDE ODST4 ODST5 ODST6 ODST7 AD_VSS AD_VDDE DET0 DET1 DET2 VDDE VSS DET3 DET4 DET5 DET6 DET7 AD_VSS AD_VDDE
NC NC VSS NC NC BD0 BD1 BD2 BD3 VDDE BD4 BD5 BD6 BD7 VSS NC GD0 GD1 VDDI GD2 GD3 GD4 GD5 GD6 GD7 VDDI VSS VCLK AD_VDDE DTEN PAGE NC RD0 VDDI RD1 RD2 RD3 VSS RD4 RD5 RD6 RD7 VDDE NC NC NC NC NC NC VSS NC NC
A0 A1 VSS A2 A3 A4 A5 A6 A7 VDDE A8 A9 A10 A11 VSS A12 A13 A14 VDDI A15 A16 A17 A18 AS ICLK VSS VDDI RESET AD_VDDE AD_VSS CSX HRD HWR VDDI AD_VDDE AD_VDDE VSS D8 D9 D10 D11 VDDE AD_VSS D12 D13 D14 D15 AD_VDDE VSS NC NC
DET_IPD
AO0 AO1 AO2 AO3 AO4 AO5 AO6 AO7 AO8 AO9 AO10 AO11 AO12 AO13 AO14 AO15 AO16 AO17 AO18
DO8 DO9 DO10 DO11 DO12 DO13 DO14 DO15
R57
0J
/AS
CPUCLK
/RES_IMGIPD
R318
X_0J
/DTR_EXT
C204
1000pF
/CS41
/RD
/HWR
97Pin C139 0.1uF
92Pin C138 0.1uF
87Pin C137 0.1uF
86Pin C136 0.1uF
83Pin C135 0.1uF
79Pin C134 0.1uF
78Pin C133 0.1uF
73Pin C132 0.1uF
10Pin C207 0.1uF
19Pin C206 0.1uF
27Pin C205 0.1uF
29Pin C127 0.1uF
34Pin C126 0.1uF
35Pin 36Pin C125 0.1uF
43Pin C124 0.1uF
49Pin C123 0.1uF
71Pin C131 0.1uF
65Pin C130 0.1uF
61Pin C129 0.1uF
53Pin C128 0.1uF
165Pin C298 0.1uF
175Pin C297 0.1uF
177Pin C295 0.1uF
181Pin C293 0.1uF
183Pin C292 0.1uF
188Pin C291 0.1uF
190Pin C290 0.1uF
195Pin C288 0.1uF
201Pin C287 0.1uF
204Pin C286 0.1uF
+3.3VIPD
+2.5VIPD
4 3 2 1
D C B A

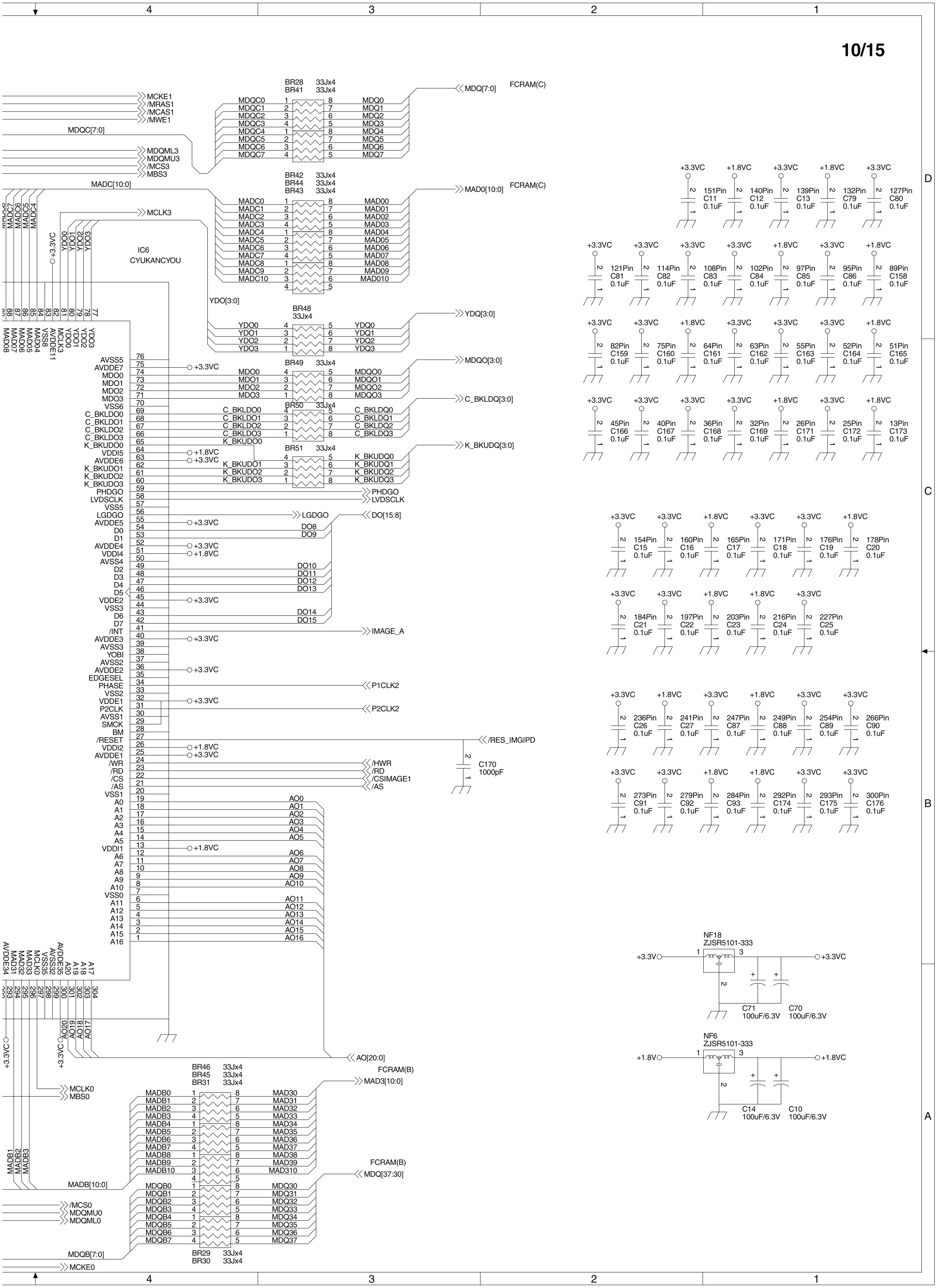
MFPC2 PWB (AREA SEPARATION ASIC)


8
7
6
5
D
C
B
A
+2.5VR
+3.3VR
240Pin C47 0.1uF
239Pin C46 0.1uF
234Pin C45 0.1uF
228PIN C44 0.1uF
220pIN C43 0.1uF
211pIN C42 0.1uF
201pIN C41 0.1uF
195pIN C40 0.1uF
190pIN C39 0.1uF
182pIN C38 0.1uF
181pIN C37 0.1uF
123Pin C108 0.1uF
129Pin C107 0.1uF
134Pin C102 0.1uF
140Pin C106 0.1uF
148Pin C105 0.1uF
155Pin C104 0.1uF
160Pin C103 0.1uF
166Pin C36 0.1uF
173Pin C35 0.1uF
178Pin C34 0.1uF
D60
1SS133
K
A
+5V2
INPUT
OUTPUT
ADJ/GND
I
O
A
IC57
L1087
C572
10uF/16V
C579
0.1uF
R316
180F
R317
180F
C573
10uF/16V
C574
100uF/6.3V
C580
0.1uF
R12
10KJ
NF39
ZJSR5101-333
NF7
X_ZJSR5101-333
+2.5V
C30
100uF/6.3V
C33
100uF/6.3V
NF21
ZJSR5101-333
+3.3V
C187
100uF/6.3V
C191
100uF/6.3V
CIN[7:0]
MIN[7:0]
YIN[7:0]
LINEN
PROEN
/RES_IMGIPD
C110
1000pF
P2CLK2
P1CLK2
/SSYNC
/HSYNC
/AS
/CSIMAGE0
/HWR
1 GND
2 GND
3 VDD(3.3V)
4 SCK
5 SMC
6 SIN
7 SOT
8 CIN0
9 CIN1
10 CIN2
11 CIN3
12 CIN4
13 CIN5
14 CIN6
15 CIN7
16 MIN0
17 MIN1
18 MIN2
19 MIN3
20 GND
21 VDD(2.5V)
22 MIN4
23 MIN5
24 MIN6
25 MIN7
26 YIN0
27 YIN1
28 YIN2
29 YIN3
30 YIN4
31 YIN5
32 YIN6
33 YIN7
34 LINEN
35 PROEN
36 TESTIN0
37 TESTIN1
38 TESTIN2
39 RESETB
40 VDD(2.5V)
41 GND
42 P2CLK
43 GND
44 VDD(3.3V)
45 VDD(2.5V)
46 GND
47 PHASE
48 EDGESEL
49 CLKSEL
50 GND
51 VDD(2.5V)
52 CLKTOEN
53 SSYNCB
54 HSYNCB
55 ASB
56 CSB
57 HWRB
58 VDD(3.3V)
59 GND
60 GND
240 VDD(2.5V)
239 VDD(3.3V)
238 TRST
237 AMC
236 TMC2
235 TMC1
234 VDD(3.3V)
233 GND
232 TESTIN7
231 TESTIN6
230 TESTIN5
229 TESTIN4
228 VDD(2.5V)
227 GND
226 TOUT23
225 TOUT22
224 TOUT21
223 TOUT20
222 TOUT19
221 GND
220 VDD(2.5V)
219 TOUT18
218 TOUT17
217 TOUT16
216 TOUT15
215 TOUT14
214 TOUT13
213 TOUT12
212 TOUT11
211 VDD(3.3V)
210 GND
209 TOUT10
208 TOUT9
207 TOUT8
206 TOUT7
205 TOUT6
204 TOUT5
203 TOUT4
202 TOUT3
201 VDD(2.5V)
200 GND
199 TOUT2
198 TOUT1
197 TOUT0
196 RCOE
61 VDD(2.5V)
62 VDD(3.3V)
63 RDB
64 A0
65 A1
66 A2
67 A3
68 A4
69 A5
70 A6
71 A7
72 A8
73 A9
74 A10
75 A11
76 A12
77 A13
78 A14
79 A15
80 GND
81 VDD(2.5V)
82 A16
83 A20(CS_AD)
84 D0
85 D1
86 GND
87 VDD(3.3V)
88 D2
89 D3
90 D4
91 D5
92 GND
93 VDD(2.5V)
94 D6
95 D7
96 DOUTBY0
97 DOUTBY1
98 DOUTBY2
99 DOUTBY3
100 GND
101 VDD(2.5V)
102 DOUTBY4
103 DOUTBY5
104 DOUTBY6
105 DOUTBY7
AO0
AO1
AO2
AO3
AO4
AO5
AO6
AO7
AO8
AO9
AO10
AO11
AO12
AO13
AO14
AO15
AO16
AO20
DO8
DO9
DO10
DO11
DO12
DO13
DO14
DO15
DOUTBY0
DOUTBY1
DOUTBY2
DOUTBY3
DOUTBY4
DOUTBY5
DOUTBY6
DOUTBY7
/RD
AO[20:0]
DO[15:8]
3Pin C48 0.1uF
21Pin C109 0.1uF
40Pin C111 0.1uF
44Pin C112 0.1uF
45Pin C113 0.1uF
51Pin C114 0.1uF
58Pin C115 0.1uF
61Pin C193 0.1uF
62Pin C192 0.1uF
81Pin C190 0.1uF
87Pin C189 0.1uF
93Pin C188 0.1uF
100Pin C186 0.1uF
107Pin C185 0.1uF
113Pin C184 0.1uF
119Pin C183 0.1uF
120Pin C182 0.1uF

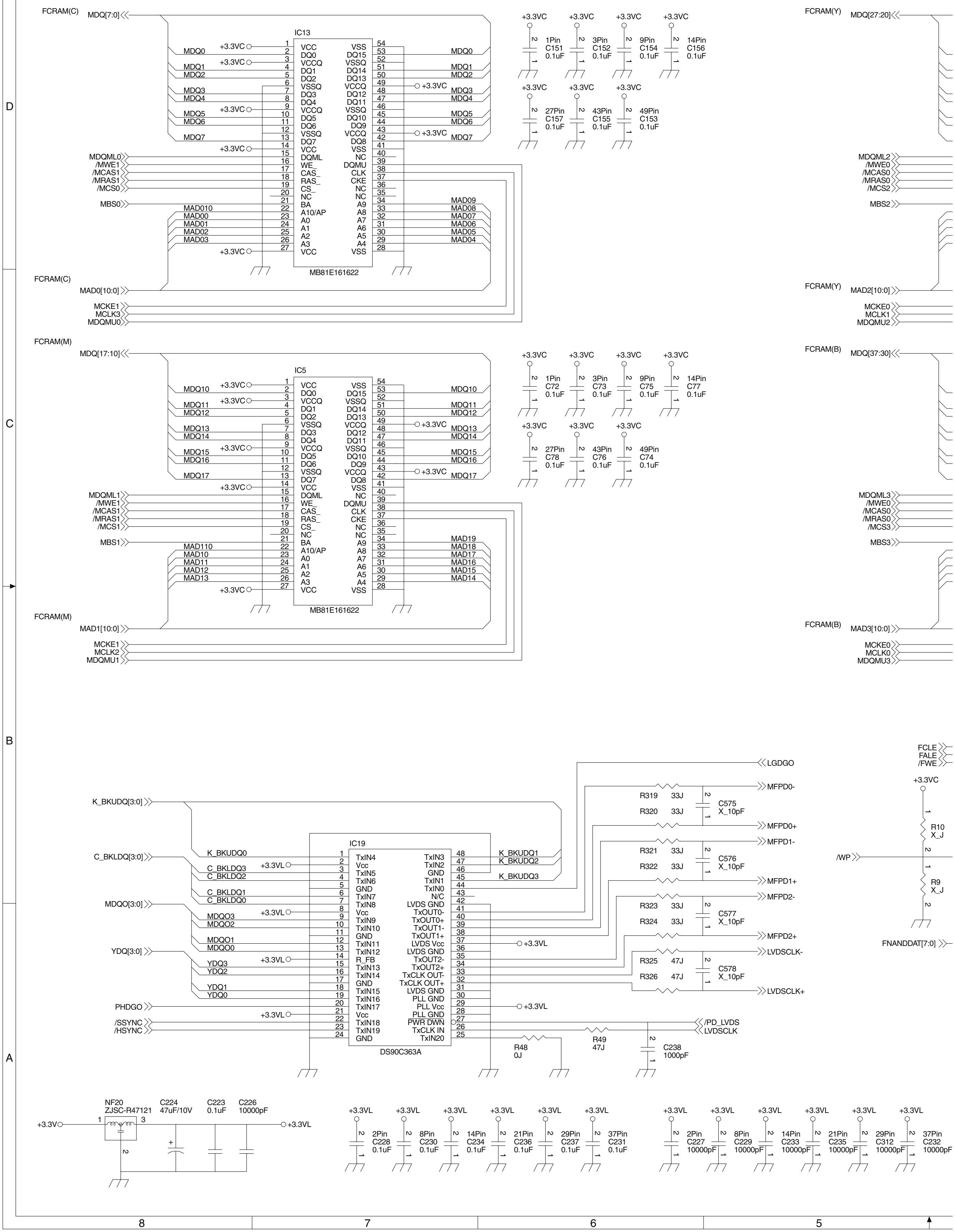

IC9
RYOUIKI
IC8
X_LH28F320BJE-PTTL90
FOEB
FWRB
R12
10KJ
R11
X_1KJ
+3.3VR
+2.5VR
FDAT[14:0]
FAD[23:0]
BR13 X_10KJX4
BR12 X_10KJX4
BR14 X_10KJX4
BR11 X_10KJX4
BR19 47KJx4
BR18 47KJX4
BR17 47KJX4
BR15 47KJX4
BR16 47KJX4
BR34 47KJX4
BR35 47KJX4
BR36 47KJX4
BR37 47KJX4
BR38 33Jx4
BR47 33Jx4
BR5 33Jx4
BR4 33Jx4
BR7 33Jx4
BR6 33Jx4
PROENO
LINENO
AREA2
AREA1
AREA0
TESTIN3
/RES_IMGIPD
/WP
CSDI[7:0]
MSDI[7:0]
YSDI[7:0]
DOUTGM[7:0]
DOUTBY[7:0]
13Pin
C32
X_0.1uF
37Pin
C31
X_0.1uF
A15
A14
A13
A12
A11
A10
A9
A8
A19
A20
WE#
RP#
Vccw
WP#
RY/BY#
A18
A17
A7
A6
A5
A4
A3
A2
A1
A16
BYTE#
GND
DQ15/A-1
DQ7
DQ14
DQ6
DQ13
DQ5
DQ12
DQ4
Vcc
DQ11
DQ3
DQ10
DQ2
DQ9
DQ1
DQ8
DQ0
OE#
CE#
A0
4
3
2
1
D
C
B
A

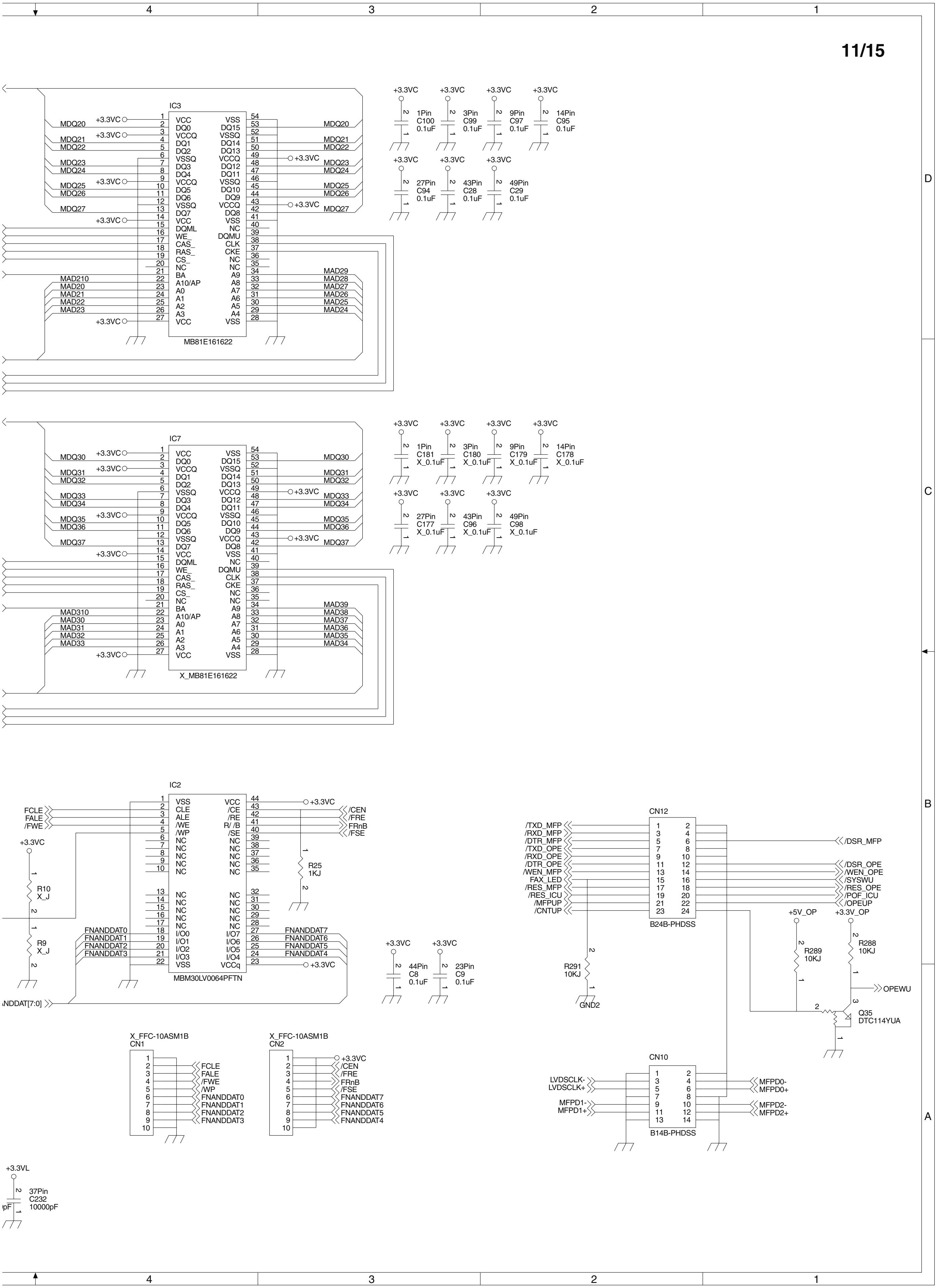
MFPC2 PWB (HALF-TONE ASIC)


8
7
6
5
D
C
B
A
FCRAM(M)
MDQ[17:10]
BR27 33Jx4
BR26 33Jx4
MDQ10
MDQ11
MDQ12
MDQ13
MDQ14
MDQ15
MDQ16
MDQ17
MDQM0
MDQM1
MDQM2
MDQM3
MDQM4
MDQM5
MDQM6
MDQM7
MDQM[7:0]
MDQML2
MDQMU2
/MCS2
MADM[10:0]
FCRAM(M)
MAD1[10:0]
BR1 33Jx4
BR24 33Jx4
BR25 33Jx4
MAD10
MAD11
MAD12
MAD13
MAD14
MAD15
MAD16
MAD17
MAD19
MAD18
MAD110
MADM0
MADM1
MADM2
MADM3
MADM4
MADM5
MADM6
MADM7
MADM9
MADM8
MADM10
MBS2
MCLK2
+3.3VC
+1.8VC
FRnB
/FSE
FCLE
/FRE
FALE
/FWE
FNANDDAT[7:0]
BR2 33Jx4
BR3 33Jx4
FNANDDAT0
FNANDDAT1
FNANDDAT2
FNANDDAT3
FNANDDAT4
FNANDDAT5
FNANDDAT6
FNANDDAT7
FD0
FD1
FD2
FD3
FD4
FD5
FD6
FD7
CSDI[7:0]
CSDI0
CSDI1
CSDI2
CSDI3
CSDI4
CSDI5
CSDI6
CSDI7
MSDI[7:0]
MSDI0
MSDI1
MSDI2
MSDI3
MSDI4
MSDI5
MSDI6
MSDI7
YSDI[7:0]
YSDI0
YSDI1
YSDI2
YSDI3
YSDI4
YSDI5
YSDI6
YSDI7
AREA0
AREA1
AREA2
PROENO
LINENO
/HSYNC
/SSYNC
153 FRnB
154 AVDDE21
155 AVSS21
156 AREAO1
157 AREAO0
158 /FSE
159 VSS18
160 AVDDE22
161 FCLE
162 /FRE
163 FALE
164 /FWE
165 VDDI12
166 FDAT0
167 FDAT1
168 FDAT2
169 FDAT3
170 FDAT4
171 AVDDE23
172 VSS19
173 FDAT5
174 FDAT6
175 FDAT7
176 AVDDE24
177 AVSS22
178 VDDI13
179 CSDI0
180 CSDI1
181 CSDI2
182 CSDI3
183 CSDI4
184 VDDE13
185 VSS21
186 CSDI5
187 CSDI6
188 CSDI7
189 MSDI0
190 MSDI1
191 MSDI2
192 MSDI3
193 MSDI4
194 MSDI5
195 MSDI6
196 VSS22
197 VDDE14
198 MSDI7
199 YSDI0
200 YSDI1
201 YSDI2
202 YSDI3
203 VDDI15
204 YSDI4
205 YSDI5
206 YSDI6
207 YSDI7
208 AREAI0
209 VSS23
210 AREAI1
211 AREAI2
212 PROEN
213 LINEN
214 /HSYNC
215 /SSYNC
216 VDDI16
217 XTST
218 SM
219 MST
220 VPD
221 TEST
222 VSS24
223 FIRTHR
224 ZMTHR
225 COLTHR
226 HTTHR
227 AVDDE25
228 AVSS23
FCRAM(Y)
MAD2[10:0]
BR10 33Jx4
BR8 33Jx4
BR9 33Jx4
MAD20
MAD21
MAD22
MAD23
MAD24
MAD25
MAD26
MAD27
MAD28
MAD29
MAD210
MADY0
MADY1
MADY2
MADY3
MADY4
MADY5
MADY6
MADY7
MADY8
MADY9
MADY10
MCLK1
MADY[10:0]
FCRAM(Y)
MDQ[27:20]
BR33 33Jx4
BR32 33Jx4
MDQ20
MDQ21
MDQ22
MDQ23
MDQ24
MDQ25
MDQ26
MDQ27
MDQY0
MDQY1
MDQY2
MDQY3
MDQY4
MDQY5
MDQY6
MDQY7
MDQY[7:0]
MBS1
/MCS1
MDQMU1
MDQML1
/MWE0
/MCAS0
/MRAS0
MDQB0
MDQB1
MDQB2
MDQB3
MDQB4
MDQB5
MDQB6
MDQB7
MADB9
MADB8
MADB7
MADB6
MADB5
MADB4
MADB10
MADB0
MADB1
MADB2
MADB3
MDQC0
MDQC1
MDQC2
MDQC3
MDQC4
MDQC5
MDQC6
MDQC7
MADC10
MADC0
MADC1
MADC2
MADC3
MADC9
MADC8
MADC7
MADC6
MADC5
MADC4

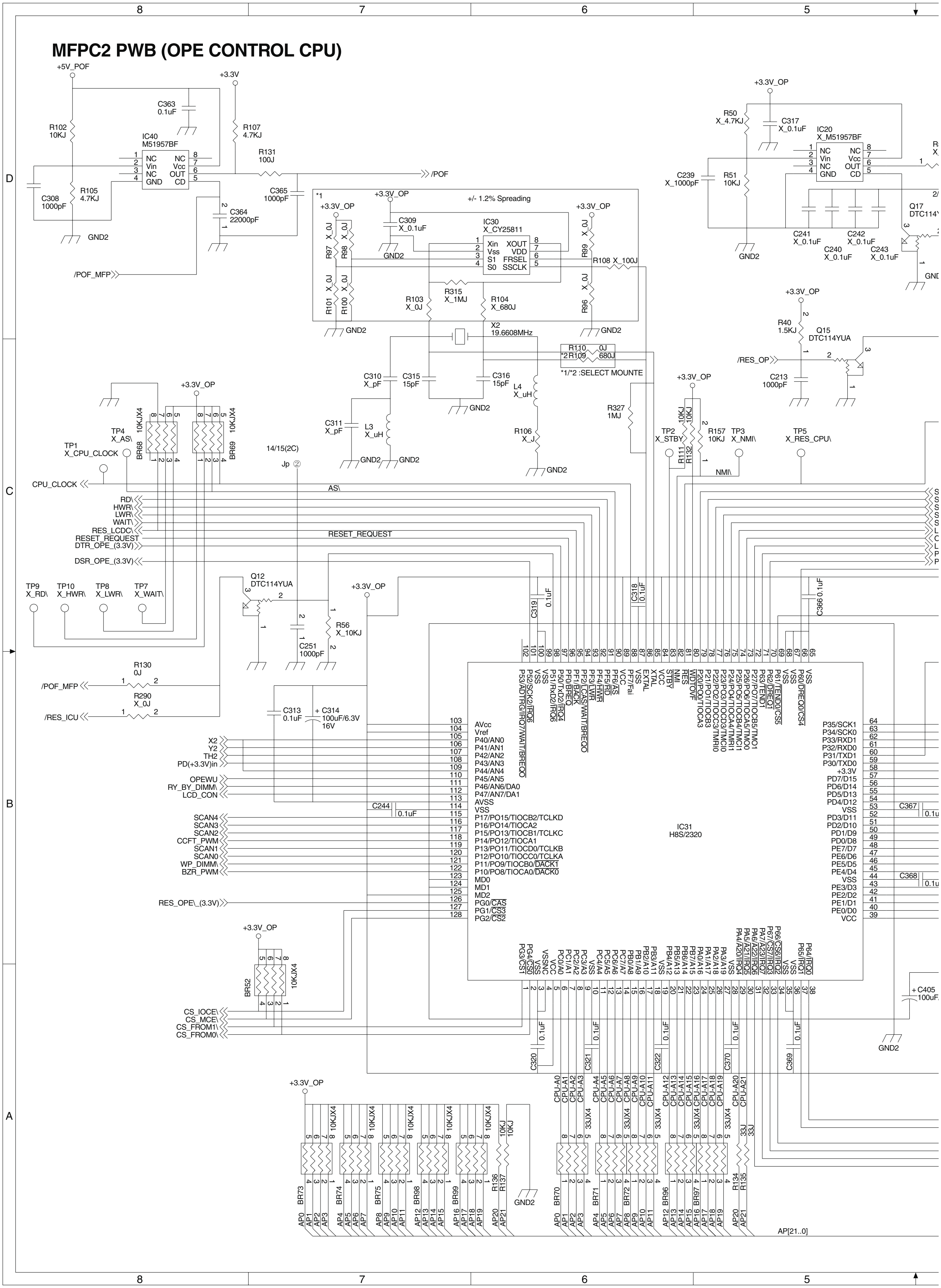

10/15
4
3
2
1
D
C
B
A
IC6
CYUKANCYOU
BR28 33Jx4
BR41 33Jx4
MDQC0
MDQC1
MDQC2
MDQC3
MDQC4
MDQC5
MDQC6
MDQC7
MDQ0
MDQ1
MDQ2
MDQ3
MDQ4
MDQ5
MDQ6
MDQ7
MDQ[7:0]
FCRAM(C)
MCKE1
/MRAS1
/MCAS1
/MWE1
MDQC[7:0]
MDQML3
MDQMU3
/MCS3
MBS3
MADC[10:0]
BR42 33Jx4
BR44 33Jx4
BR43 33Jx4
MADC0
MADC1
MADC2
MADC3
MADC4
MADC5
MADC6
MADC7
MADC8
MADC9
MADC10
MAD00
MAD01
MAD02
MAD03
MAD04
MAD05
MAD06
MAD07
MAD08
MAD09
MAD010
MAD0[10:0]
FCRAM(C)
MCLK3
YDO[3:0]
BR48
33Jx4
YDO0
YDO1
YDO2
YDO3
YDQ0
YDQ1
YDQ2
YDQ3
YDQ[3:0]
BR49 33Jx4
MDO0
MDO1
MDO2
MDO3
MDQO0
MDQO1
MDQO2
MDQO3
MDQO[3:0]
BR50 33Jx4
C_BKLDO0
C_BKLDO1
C_BKLDO2
C_BKLDO3
C_BKLDQ0
C_BKLDQ1
C_BKLDQ2
C_BKLDQ3
C_BKLDQ[3:0]
BR51 33Jx4
K_BKUDO0
K_BKUDO1
K_BKUDO2
K_BKUDO3
K_BKUDQ0
K_BKUDQ1
K_BKUDQ2
K_BKUDQ3
K_BKUDQ[3:0]
PHDGO
LVDSCLK
LGDGO
DO[15:8]
DO8
DO9
DO10
DO11
DO12
DO13
DO14
DO15
IMAGE_A
P1CLK2
P2CLK2
/RES_IMGIPD
C170
1000pF
/HWR
/RD
/CSIMAGE1
/AS
AO0
AO1
AO2
AO3
AO4
AO5
AO6
AO7
AO8
AO9
AO10
AO11
AO12
AO13
AO14
AO15
AO16
AO17
AO18
AO19
AO20
AO[20:0]
76 AVSS5
75 AVDDE7
74 MDO0
73 MDO1
72 MDO2
71 MDO3
70 VSS6
69 C_BKLDO0
68 C_BKLDO1
67 C_BKLDO2
66 C_BKLDO3
65 K_BKUDO0
64 VDDI5
63 AVDDE6
62 K_BKUDO1
61 K_BKUDO2
60 K_BKUDO3
59 PHDGO
58 LVDSCLK
57 VSS5
56 LGDGO
55 AVDDE5
54 D0
53 D1
52 AVDDE4
51 VDDI4
50 AVSS4
49 D2
48 D3
47 D4
46 D5
45 VDDE2
44 VSS3
43 D6
42 D7
41 /INT
40 AVDDE3
39 AVSS3
38 YOBI
37 AVSS2
36 AVDDE2
35 EDGESEL
34 PHASE
33 VSS2
32 VDDE1
31 P2CLK
30 AVSS1
29 SMCK
28 BM
27 /RESET
26 VDDI2
25 AVDDE1
24 /WR
23 /RD
22 /CS
21 /AS
20 VSS1
19 A0
18 A1
17 A2
16 A3
15 A4
14 A5
13 VDDI1
12 A6
11 A7
10 A8
9 A9
8 A10
7 VSS0
6 A11
5 A12
4 A13
3 A14
2 A15
1 A16
88 MAD08
87 MAD07
86 MAD06
85 MAD05
84 MAD04
83 VSS8
82 MCLK3
81 AVDDE11
80 YDO0
79 YDO1
78 YDO2
77 YDO3
292 AVDDE34
293 MADB1
294 MADB2
295 MADB3
296 MCLK0
297 MBS0
298 VSS35
299 AVSS32
300 AVDDE35
301 A20
302 A19
303 A18
304 A17
+3.3VC
+1.8VC
MCLK0
MBS0
BR46 33Jx4
BR45 33Jx4
BR31 33Jx4
MADB0
MADB1
MADB2
MADB3
MADB4
MADB5
MADB6
MADB7
MADB8
MADB9
MADB10
MAD30
MAD31
MAD32
MAD33
MAD34
MAD35
MAD36
MAD37
MAD38
MAD39
MAD310
MAD3[10:0]
FCRAM(B)
MADB[10:0]
MDQB0
MDQB1
MDQB2
MDQB3
MDQB4
MDQB5
MDQB6
MDQB7
MDQ30
MDQ31
MDQ32
MDQ33
MDQ34
MDQ35
MDQ36
MDQ37
MDQ[37:30]
FCRAM(B)
/MCS0
MDQMU0
MDQML0
MDQB[7:0]
BR29 33Jx4
BR30 33Jx4
MCKE0
151Pin C11 0.1uF
140Pin C12 0.1uF
139Pin C13 0.1uF
132Pin C79 0.1uF
127Pin C80 0.1uF
121Pin C81 0.1uF
114Pin C82 0.1uF
108Pin C83 0.1uF
102Pin C84 0.1uF
97Pin C85 0.1uF
95Pin C86 0.1uF
89Pin C158 0.1uF
82Pin C159 0.1uF
75Pin C160 0.1uF
64Pin C161 0.1uF
63Pin C162 0.1uF
55Pin C163 0.1uF
52Pin C164 0.1uF
51Pin C165 0.1uF
45Pin C166 0.1uF
40Pin C167 0.1uF
36Pin C168 0.1uF
32Pin C169 0.1uF
26Pin C171 0.1uF
25Pin C172 0.1uF
13Pin C173 0.1uF
154Pin C15 0.1uF
160Pin C16 0.1uF
165Pin C17 0.1uF
171Pin C18 0.1uF
176Pin C19 0.1uF
178Pin C20 0.1uF
184Pin C21 0.1uF
197Pin C22 0.1uF
203Pin C23 0.1uF
216Pin C24 0.1uF
227Pin C25 0.1uF
236Pin C26 0.1uF
241Pin C27 0.1uF
247Pin C87 0.1uF
249Pin C88 0.1uF
254Pin C89 0.1uF
266Pin C90 0.1uF
273Pin C91 0.1uF
279Pin C92 0.1uF
284Pin C93 0.1uF
292Pin C174 0.1uF
293Pin C175 0.1uF
300Pin C176 0.1uF
NF18
ZJSR5101-333
+3.3V
+3.3VC
C71 100uF/6.3V
C70 100uF/6.3V
NF6
ZJSR5101-333
+1.8V
+1.8VC
C14 100uF/6.3V
C10 100uF/6.3V

MFPC2 PWB (LVDS & FCRAM & NAND & CONNECTOR)

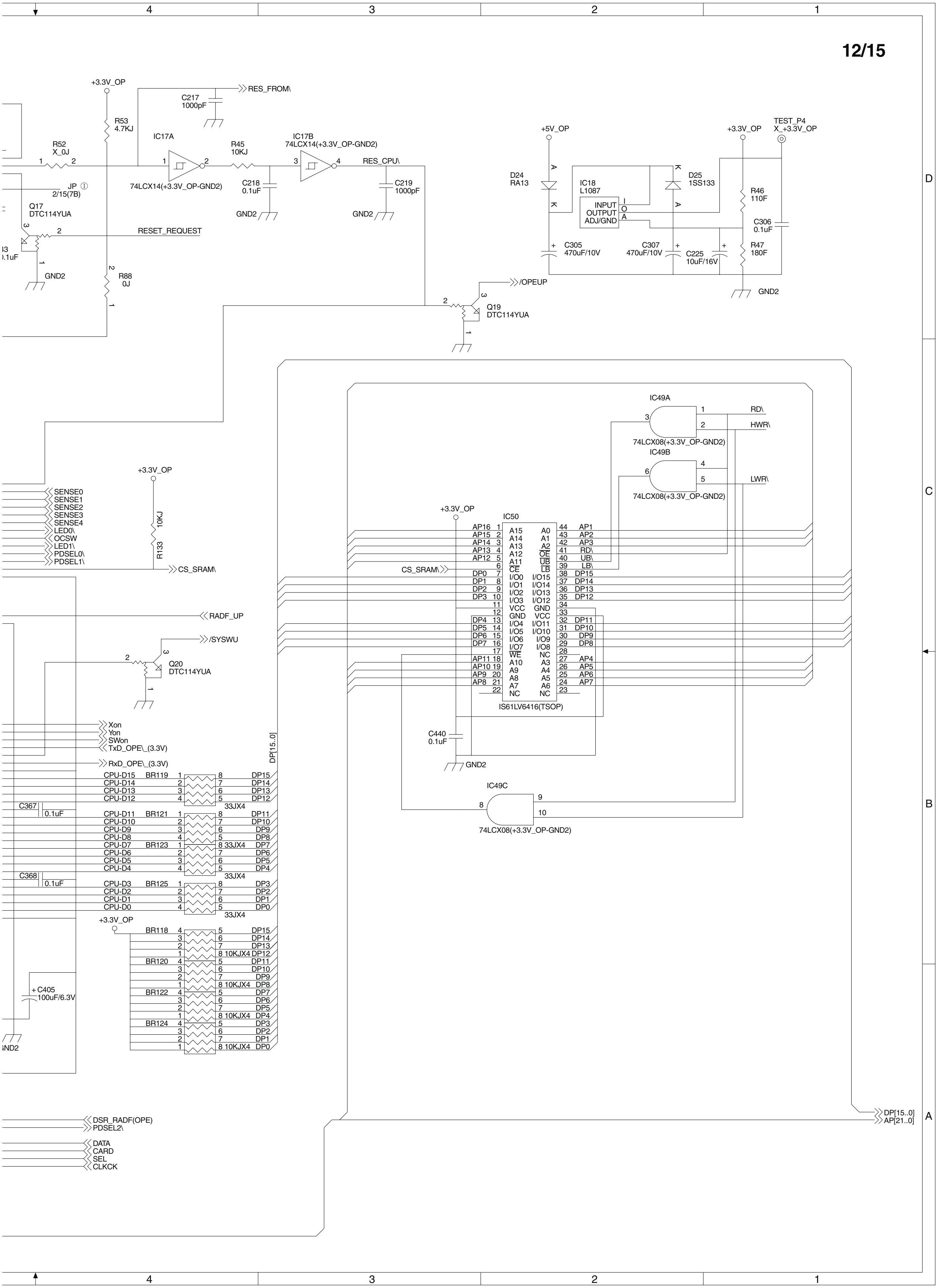

FCRAM(C)
MDQ[7:0]
IC13
MB81E161622
VCC
DQ0
VCCQ
DQ1
DQ2
VSSQ
DQ3
DQ4
VCCQ
DQ5
DQ6
VSSQ
DQ7
VCC
DQML
WE_
CAS_
RAS_
CS_
NC
BA
A10/AP
A0
A1
A2
A3
VSS
DQ15
DQ14
DQ13
DQ12
DQ11
DQ10
DQ9
DQ8
DQMU
CLK
CKE
A9
A8
A7
A6
A5
A4
+3.3VC
MDQML0
/MWE1
/MCAS1
/MRAS1
/MCS0
MBS0
MAD010
MAD00
MAD01
MAD02
MAD03
MAD09
MAD08
MAD07
MAD06
MAD05
MAD04
MAD0[10:0]
MCKE1
MCLK3
MDQMU0
1Pin C151 0.1uF
3Pin C152 0.1uF
9Pin C154 0.1uF
14Pin C156 0.1uF
27Pin C157 0.1uF
43Pin C155 0.1uF
49Pin C153 0.1uF
FCRAM(Y)
MDQ[27:20]
MDQML2
/MWE0
/MCAS0
/MRAS0
/MCS2
MBS2
MAD2[10:0]
MCKE0
MCLK1
MDQMU2
FCRAM(M)
MDQ[17:10]
IC5
MB81E161622
MDQML1
/MWE1
/MCAS1
/MRAS1
/MCS1
MBS1
MAD110
MAD10
MAD11
MAD12
MAD13
MAD19
MAD18
MAD17
MAD16
MAD15
MAD14
MAD1[10:0]
MCKE1
MCLK2
MDQMU1
1Pin C72 0.1uF
3Pin C73 0.1uF
9Pin C75 0.1uF
14Pin C77 0.1uF
27Pin C78 0.1uF
43Pin C76 0.1uF
49Pin C74 0.1uF
FCRAM(B)
MDQ[37:30]
MDQML3
/MWE0
/MCAS0
/MRAS0
/MCS3
MBS3
MAD3[10:0]
MCKE0
MCLK0
MDQMU3
FCLE
FALE
/FWE
+3.3VC
R10 X_J
/WP
R9 X_J
FNANDDAT[7:0]
LGDGO
MFPD0-
R319 33J
R320 33J
C575 X_10pF
MFPD0+
MFPD1-
R321 33J
R322 33J
C576 X_10pF
MFPD1+
MFPD2-
R323 33J
R324 33J
C577 X_10pF
MFPD2+
LVDSCLK-
R325 47J
R326 47J
C578 X_10pF
LVDSCLK+
K_BKUDQ[3:0]
C_BKLDQ[3:0]
MDQO[3:0]
YDQ[3:0]
PHDGO
/SSYNC
/HSYNC
IC19
DS90C363A
K_BKUDQ0
C_BKLDQ3
C_BKLDQ2
C_BKLDQ1
C_BKLDQ0
MDQO3
MDQO2
MDQO1
MDQO0
YDQ3
YDQ2
YDQ1
YDQ0
K_BKUDQ1
K_BKUDQ2
K_BKUDQ3
+3.3VL
TxIN4
Vcc
TxIN5
TxIN6
GND
TxIN7
TxIN8
TxIN9
TxIN10
TxIN11
TxIN12
R_FB
TxIN13
TxIN14
TxIN15
TxIN16
TxIN17
TxIN18
TxIN19
TxIN3
TxIN2
TxIN1
TxIN0
N/C
LVDS GND
TxOUT0-
TxOUT0+
TxOUT1-
TxOUT1+
LVDS Vcc
TxOUT2-
TxOUT2+
TxCLK OUT-
TxCLK OUT+
PLL GND
PLL Vcc
PWR DWN
TxCLK IN
TxIN20
/PD_LVDS
LVDSCLK
R48 0J
R49 47J
C238 1000pF
NF20 ZJSC-R47121
C224 47uF/10V
C223 0.1uF
C226 10000pF
+3.3V
+3.3VL
2Pin C228 0.1uF
8Pin C230 0.1uF
14Pin C234 0.1uF
21Pin C236 0.1uF
29Pin C237 0.1uF
37Pin C231 0.1uF
2Pin C227 10000pF
8Pin C229 10000pF
14Pin C233 10000pF
21Pin C235 10000pF
29Pin C312 10000pF
37Pin C232 10000pF
8
7
6
5
D
C
B
A


4
3
2
1
D
C
B
A
IC3
MB81E161622
VCC
DQ0
VCCQ
DQ1
DQ2
VSSQ
DQ3
DQ4
VCCQ
DQ5
DQ6
VSSQ
DQ7
VCC
DQML
WE_
CAS_
RAS_
CS_
NC
BA
A10/AP
A0
A1
A2
A3
VSS
DQ15
VSSQ
DQ14
DQ13
VCCQ
DQ12
DQ11
VSSQ
DQ10
DQ9
VCCQ
DQ8
DQMU
CLK
CKE
A9
A8
A7
A6
A5
A4
+3.3VC
MDQ20
MDQ21
MDQ22
MDQ23
MDQ24
MDQ25
MDQ26
MDQ27
MAD210
MAD20
MAD21
MAD22
MAD23
MAD29
MAD28
MAD27
MAD26
MAD25
MAD24
1Pin C100 0.1uF
3Pin C99 0.1uF
9Pin C97 0.1uF
14Pin C95 0.1uF
27Pin C94 0.1uF
43Pin C28 0.1uF
49Pin C29 0.1uF
IC7
X_MB81E161622
MDQ30
MDQ31
MDQ32
MDQ33
MDQ34
MDQ35
MDQ36
MDQ37
MAD310
MAD30
MAD31
MAD32
MAD33
MAD39
MAD38
MAD37
MAD36
MAD35
MAD34
1Pin C181 X_0.1uF
3Pin C180 X_0.1uF
9Pin C179 X_0.1uF
14Pin C178 X_0.1uF
27Pin C177 X_0.1uF
43Pin C96 X_0.1uF
49Pin C98 X_0.1uF
IC2
MBM30LV0064PFTN
VSS
CLE
ALE
/WE
/WP
NC
I/O0
I/O1
I/O2
I/O3
VCC
/CE
/RE
R/ /B
/SE
I/O7
I/O6
I/O5
I/O4
VCCq
FCLE
FALE
/FWE
/CEN
/FRE
FRnB
/FSE
R10 X_J
R9 X_J
R25 1KJ
FNANDDAT0
FNANDDAT1
FNANDDAT2
FNANDDAT3
FNANDDAT7
FNANDDAT6
FNANDDAT5
FNANDDAT4
NDDAT[7:0]
44Pin C8 0.1uF
23Pin C9 0.1uF
X_FFC-10ASM1B CN1
FCLE
FALE
/FWE
/WP
FNANDDAT0
FNANDDAT1
FNANDDAT2
FNANDDAT3
X_FFC-10ASM1B CN2
+3.3VC
/CEN
/FRE
FRnB
/FSE
FNANDDAT7
FNANDDAT6
FNANDDAT5
FNANDDAT4
CN12
B24B-PHDSS
/TXD_MFP
/RXD_MFP
/DTR_MFP
/TXD_OPE
/RXD_OPE
/DTR_OPE
/WEN_MFP
FAX_LED
/RES_MFP
/RES_ICU
/MFPUP
/CNTUP
/DSR_MFP
/DSR_OPE
/WEN_OPE
/SYSWU
/RES_OPE
/POF_ICU
/OPEUP
R291 10KJ
GND2
+5V_OP
+3.3V_OP
R289 10KJ
R288 10KJ
OPEWU
Q35 DTC114YUA
CN10
B14B-PHDSS
LVDSCLK-
LVDSCLK+
MFPD1-
MFPD1+
MFPD0-
MFPD0+
MFPD2-
MFPD2+
+3.3VL
37Pin C232 10000pF
pF

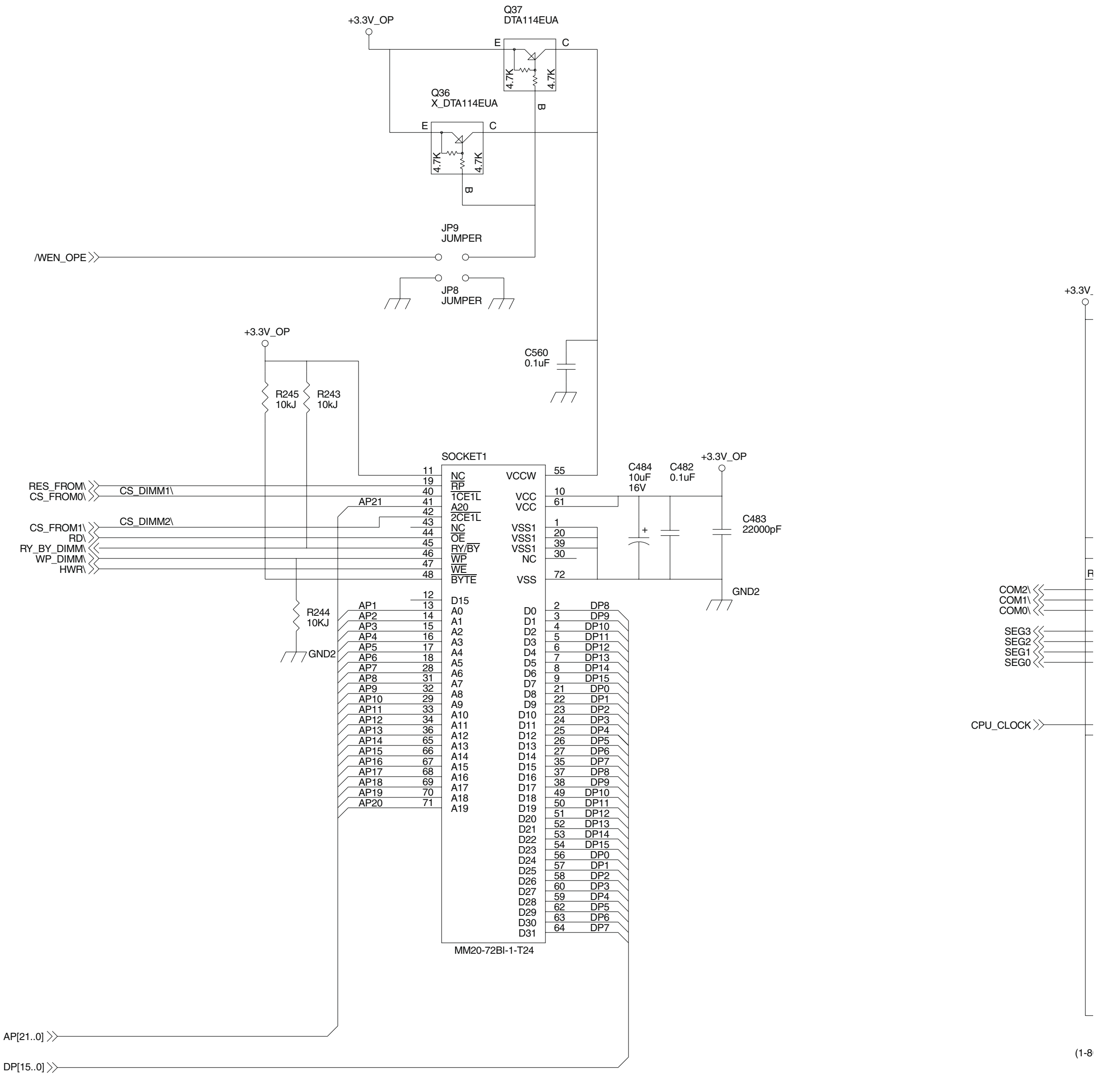
MFPC2 PWB (OPE CONTROL CPU)



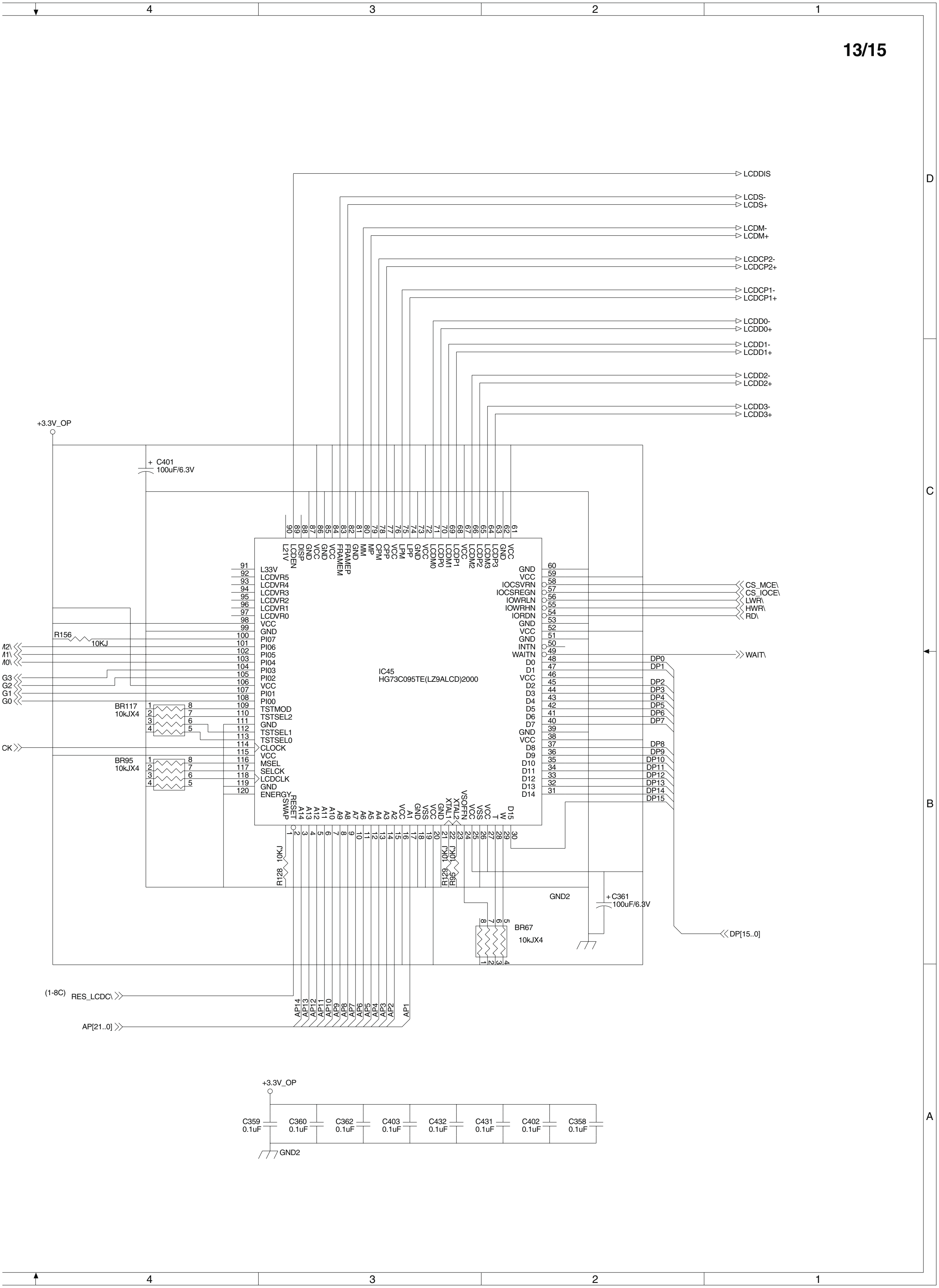
8
7
6
5
D
C
B
A
+5V_POF
+3.3V
+3.3V_OP
C363 0.1uF
R102 10KJ
R107 4.7KJ
IC40 M51957BF
NC
Vin
NC
GND
NC
Vcc
OUT
CD
R131 100J
/POF
C308 1000pF
R105 4.7KJ
C365 1000pF
C364 22000pF
GND2
/POF_MFP
*1
+/- 1.2% Spreading
C309 X_0.1uF
IC30 X_CY25811
Xin
Vss
S1
S0
XOUT
VDD
FRSEL
SSCLK
R97 X_0J
R98 X_0J
R101 X_0J
R100 X_0J
R99 X_0J
R96 X_0J
R108 X_100J
R315 X_1MJ
R103 X_0J
R104 X_680J
X2 19.6608MHz
R110 0J
*2 R109 680J
*1/*2 :SELECT MOUNTE
C310 X_pF
C315 15pF
C316 15pF
L4 X_uH
C311 X_pF
L3 X_uH
R106 X_J
R327 1MJ
R50 X_4.7KJ
C317 X_0.1uF
IC20 X_M51957BF
C239 X_1000pF
R51 10KJ
C241 X_0.1uF
C240 X_0.1uF
C242 X_0.1uF
C243 X_0.1uF
Q17 DTC114Y
R40 1.5KJ
Q15 DTC114YUA
/RES_OP
C213 1000pF
TP2 X_STBY
R111 10KJ
R132 10KJ
R157 10KJ
TP3 X_NMI\
TP5 X_RES_CPU\
NMI\
BR68 10KJX4
BR69 10KJX4
TP4 X_AS\
TP1 X_CPU_CLOCK
14/15(2C)
Jp ②
CPU_CLOCK
AS\
RD\
HWR\
LWR\
WAIT\
RES_LCDC\
RESET_REQUEST
DTR_OPE_(3.3V)
DSR_OPE_(3.3V)
TP9 X_RD\
TP10 X_HWR\
TP8 X_LWR\
TP7 X_WAIT\
Q12 DTC114YUA
C251 1000pF
R56 X_10KJ
C319 0.1uF
C318 0.1uF
C366 0.1uF
R130 0J
R290 X_0J
/POF_MFP
/RES_ICU
C313 0.1uF
C314 100uF/6.3V 16V
X2
Y2
TH2
PD(+3.3V)in
OPEWU
RY_BY_DIMM\
LCD_CON
C244 0.1uF
SCAN4
SCAN3
SCAN2
CCFT_PWM
SCAN1
SCAN0
WP_DIMM\
BZR_PWM
RES_OPE_(3.3V)
IC31 H8S/2320
AVcc
Vref
P40/AN0
P41/AN1
P42/AN2
P43/AN3
P44/AN4
P45/AN5
P46/AN6/DA0
P47/AN7/DA1
AVSS
VSS
P17/PO15/TIOCB2/TCLKD
P16/PO14/TIOCA2
P15/PO13/TIOCB1/TCLKC
P14/PO12/TIOCA1
P13/PO11/TIOCD0/TCLKB
P12/PO10/TIOCC0/TCLKA
P11/PO9/TIOCB0/DACK1
P10/PO8/TIOCA0/DACK0
MD0
MD1
MD2
PG0/CAS
PG1/CS3
PG2/CS2
P35/SCK1
P34/SCK0
P33/RXD1
P32/RXD0
P31/TXD1
P30/TXD0
+3.3V
PD7/D15
PD6/D14
PD5/D13
PD4/D12
VSS
PD3/D11
PD2/D10
PD1/D9
PD0/D8
PE7/D7
PE6/D6
PE5/D5
PE4/D4
VSS
PE3/D3
PE2/D2
PE1/D1
PE0/D0
VCC
C367 0.1u
C368 0.1u
C405 100uF
PG3/CS1
PG4/CS0
VSS
VSS
VCC
PC0/A0
PC1/A1
PC2/A2
PC3/A3
VSS
PC4/A4
PC5/A5
PC6/A6
PC7/A7
PB0/A8
PB1/A9
PB2/A10
PB3/A11
VSS
PB4/A12
PB5/A13
PB6/A14
PB7/A15
PA0/A16
PA1/A17
PA2/A18
PA3/A19
VSS
PA4/A20/IRQ4
PA5/A21/IRQ5
PA6/A22/IRQ6
PA7/A23/IRQ7
P66/CS6/IRQ2
P67/CS7/IRQ3
VSS
VSS
P65/IRQ1
P64/IRQ0
PG3/ADTRG/IRQ7/WAIT/BREQO
P52/SCK2/IRQ6
VSS
VSS
P51/RXD2/IRQ5
P50/TXD2/IRQ4
PF0/BREQ
PF1/BACK
PF2/LCAS/WAIT/BREQO
PF3/LWR
PF4/HWR
PF5/RD
PF6/AS
VCC
PF7/Fai
VSS
EXTAL
XTAL
VCC
STBY
NMI
RES
WDTOVF
P20/PO0/TIOCA3
P21/PO1/TIOCB3
P22/PO2/TIOCC3/TMRI0
P23/PO3/TIOCD3/TMCI0
P24/PO4/TIOCA4/TMRI1
P25/PO5/TIOCB4/TMCI1
P26/PO6/TIOCA5/TMO0
P27/PO7/TIOCB5/TMO1
P61/TEND0/CS5
P62/DREQ1
P63/TEND1
VSS
VSS
P60/DREQ0/CS4
VSS
BR52 10KJX4
CS_IOCE\
CS_MCE\
CS_FROM1\
CS_FROM0\
C320 0.1uF
C321 0.1uF
C322 0.1uF
C370 0.1uF
C369 0.1uF
GND2
CPU-A0
CPU-A1
CPU-A2
CPU-A3
CPU-A4
CPU-A5
CPU-A6
CPU-A7
CPU-A8
CPU-A9
CPU-A10
CPU-A11
CPU-A12
CPU-A13
CPU-A14
CPU-A15
CPU-A16
CPU-A17
CPU-A18
CPU-A19
CPU-A20
CPU-A21
33JX4
33J
BR73
BR74
BR75
BR98
BR99
R136
R137
10KJX4
10KJ
BR70
BR71
BR72
BR96
BR97
R134
R135
AP0
AP1
AP2
AP3
AP4
AP5
AP6
AP7
AP8
AP9
AP10
AP11
AP12
AP13
AP14
AP15
AP16
AP17
AP18
AP19
AP20
AP21
AP[21..0]


4
3
2
1
D
C
B
A
+3.3V_OP
C217
1000pF
RES_FROM\
R53
4.7KJ
IC17A
IC17B
74LCX14(+3.3V_OP-GND2)
R52
X_0J
R45
10KJ
RES_CPU\
JP ①
2/15(7B)
74LCX14(+3.3V_OP-GND2)
C218
0.1uF
C219
1000pF
Q17
DTC114YUA
GND2
RESET_REQUEST
R88
0J
/OPEUP
Q19
DTC114YUA
+5V_OP
D24
RA13
IC18
L1087
INPUT
OUTPUT
ADJ/GND
D25
1SS133
C305
470uF/10V
C307
470uF/10V
C225
10uF/16V
+3.3V_OP
TEST_P4
X_+3.3V_OP
R46
110F
C306
0.1uF
R47
180F
GND2
IC49A
RD\
HWR\
74LCX08(+3.3V_OP-GND2)
IC49B
LWR\
74LCX08(+3.3V_OP-GND2)
+3.3V_OP
10KJ
R133
SENSE0
SENSE1
SENSE2
SENSE3
SENSE4
LED0\
OCSW
LED1\
PDSEL0\
PDSEL1\
CS_SRAM\
IC50
AP16 1 A15
AP15 2 A14
AP14 3 A13
AP13 4 A12
AP12 5 A11
CS_SRAM\ 6 CE
DP0 7 I/O0
DP1 8 I/O1
DP2 9 I/O2
DP3 10 I/O3
11 VCC
12 GND
DP4 13 I/O4
DP5 14 I/O5
DP6 15 I/O6
DP7 16 I/O7
17 WE
AP11 18 A10
AP10 19 A9
AP9 20 A8
AP8 21 A7
22 NC
A0 44 AP1
A1 43 AP2
A2 42 AP3
OE 41 RD\
UB 40 UB\
LB 39 LB\
I/O15 38 DP15
I/O14 37 DP14
I/O13 36 DP13
I/O12 35 DP12
GND 34
VCC 33
I/O11 32 DP11
I/O10 31 DP10
I/O9 30 DP9
I/O8 29 DP8
NC 28
A3 27 AP4
A4 26 AP5
A5 25 AP6
A6 24 AP7
NC 23
IS61LV6416(TSOP)
RADF_UP
/SYSWU
Q20
DTC114YUA
C440
0.1uF
GND2
IC49C
74LCX08(+3.3V_OP-GND2)
Xon
Yon
SWon
TxD_OPE_(3.3V)
RxD_OPE_(3.3V)
DP[15..0]
CPU-D15 BR119 DP15
CPU-D14 DP14
CPU-D13 DP13
CPU-D12 DP12
33JX4
C367
0.1uF
CPU-D11 BR121 DP11
CPU-D10 DP10
CPU-D9 DP9
CPU-D8 DP8
CPU-D7 BR123 33JX4 DP7
CPU-D6 DP6
CPU-D5 DP5
CPU-D4 DP4
33JX4
C368
0.1uF
CPU-D3 BR125 DP3
CPU-D2 DP2
CPU-D1 DP1
CPU-D0 DP0
33JX4
+3.3V_OP
BR118
10KJX4
BR120
10KJX4
BR122
10KJX4
BR124
10KJX4
C405
100uF/6.3V
GND2
DSR_RADF(OPE)
PDSEL2\
DATA
CARD
SEL
CLKCK
DP[15..0]
AP[21..0]

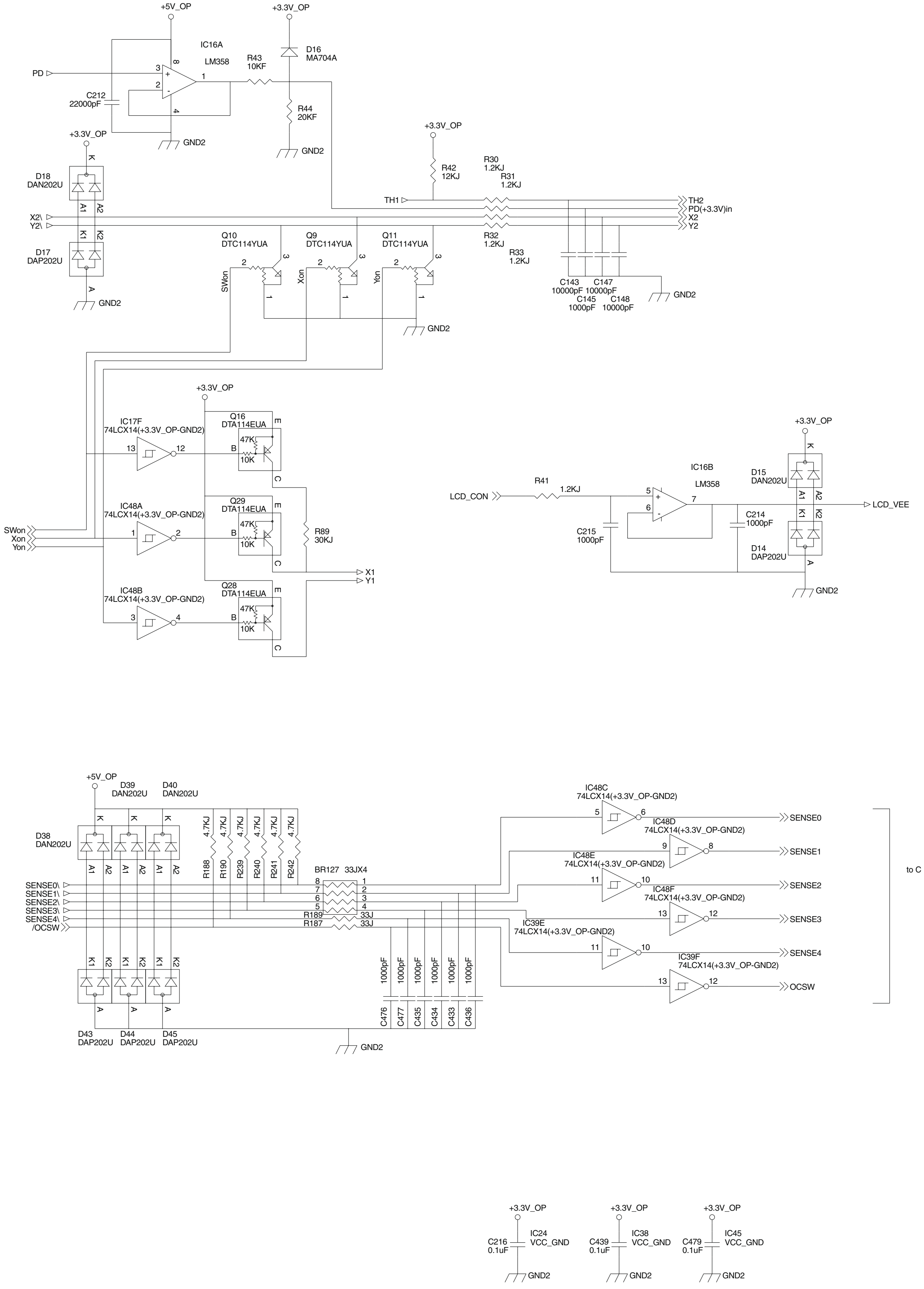
MFPC2 PWB (FLASH & LCDC)

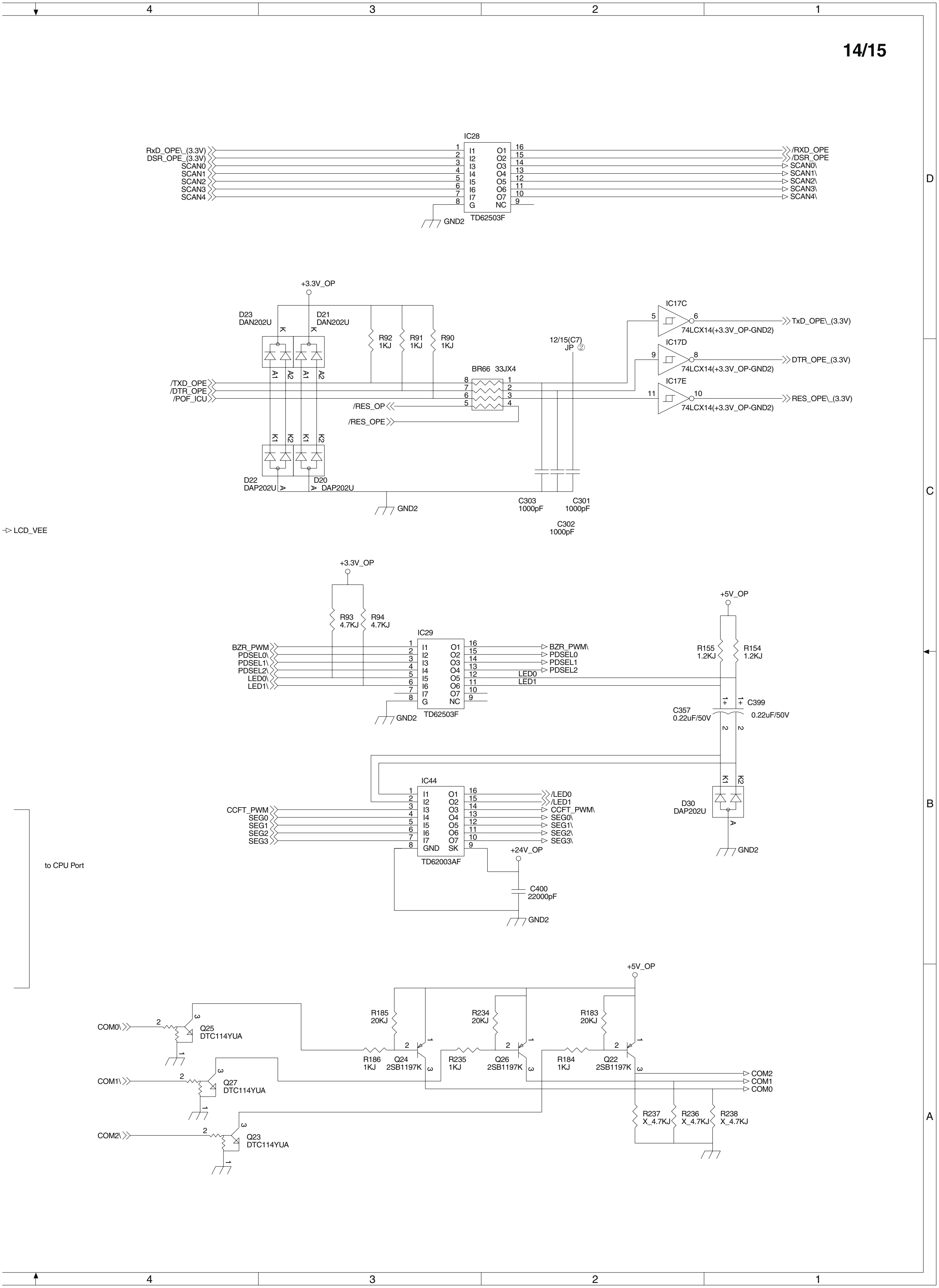


Q37
DTA114EUA
+3.3V_OP
E
C
4.7K
4.7K
B
Q36
X_DTA114EUA
JP9
JUMPER
/WEN_OPE
JP8
JUMPER
C560
0.1uF
R245
10kJ
R243
10kJ
SOCKET1
RES_FROM\
CS_FROM0\
CS_DIMM1\
AP21
CS_FROM1\
CS_DIMM2\
RD\
RY_BY_DIMM\
WP_DIMM\
HWR\
11 NC
19 RP
40 1CE1L
41 A20
42 2CE1L
43 NC
44 OE
45 RY/BY
46 WP
47 WE
48 BYTE
55 VCCW
10 VCC
61 VCC
1 VSS1
20 VSS1
39 VSS1
30 NC
72 VSS
C484
10uF
16V
C482
0.1uF
C483
22000pF
GND2
R244
10KJ
12 D15
AP1 13 A0
AP2 14 A1
AP3 15 A2
AP4 16 A3
AP5 17 A4
AP6 18 A5
AP7 28 A6
AP8 31 A7
AP9 32 A8
AP10 29 A9
AP11 33 A10
AP12 34 A11
AP13 36 A12
AP14 65 A13
AP15 66 A14
AP16 67 A15
AP17 68 A16
AP18 69 A17
AP19 70 A18
AP20 71 A19
D0 2 DP8
D1 3 DP9
D2 4 DP10
D3 5 DP11
D4 6 DP12
D5 7 DP13
D6 8 DP14
D7 9 DP15
D8 21 DP0
D9 22 DP1
D10 23 DP2
D11 24 DP3
D12 25 DP4
D13 26 DP5
D14 27 DP6
D15 35 DP7
D16 37 DP8
D17 38 DP9
D18 49 DP10
D19 50 DP11
D20 51 DP12
D21 52 DP13
D22 53 DP14
D23 54 DP15
D24 56 DP0
D25 57 DP1
D26 58 DP2
D27 60 DP3
D28 59 DP4
D29 62 DP5
D30 63 DP6
D31 64 DP7
MM20-72BI-1-T24
AP[21..0]
DP[15..0]
+3.3V_
COM2\
COM1\
COM0\
SEG3
SEG2
SEG1
SEG0
CPU_CLOCK
(1-8

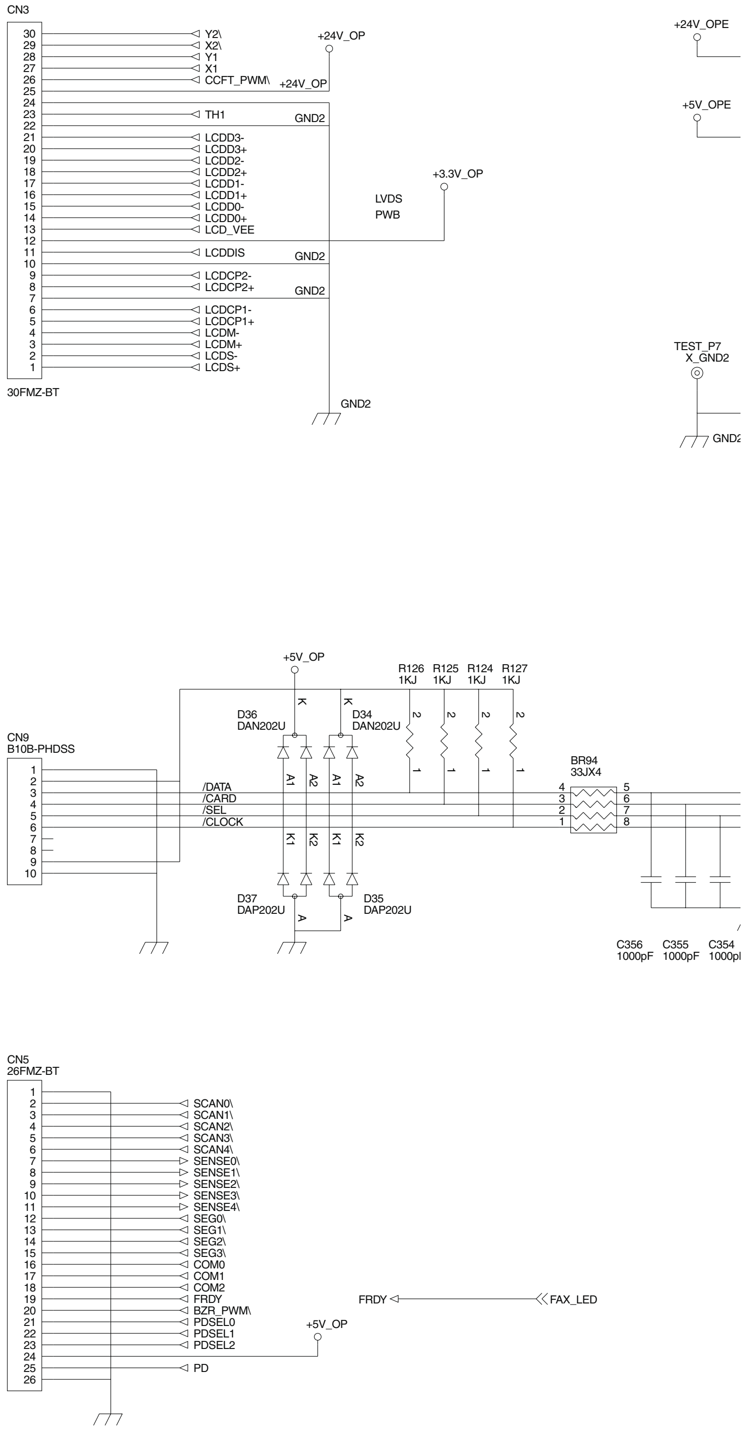

4
3
2
1
D
C
B
A
LCDDIS
LCDS-
LCDS+
LCDM-
LCDM+
LCDCP2-
LCDCP2+
LCDCP1-
LCDCP1+
LCDD0-
LCDD0+
LCDD1-
LCDD1+
LCDD2-
LCDD2+
LCDD3-
LCDD3+
+3.3V_OP
C401
100uF/6.3V
IC45
HG73C095TE(LZ9ALCD)2000
L21V
LCDEN
DISP
GND
VCC
GND
VCC
FRAMEM
FRAMEP
GND
MM
MP
CPM
CPP
VCC
LPM
LPP
GND
VCC
LCDM0
LCDP0
LCDM1
LCDP1
VCC
LCDM2
LCDP2
LCDM3
LCDP3
GND
VCC
L33V
LCDVR5
LCDVR4
LCDVR3
LCDVR2
LCDVR1
LCDVR0
VCC
GND
PI07
PI06
PI05
PI04
PI03
PI02
VCC
PI01
PI00
TSTMOD
TSTSEL2
GND
TSTSEL1
TSTSEL0
CLOCK
GND
VCC
MSEL
SELCK
LCDCLK
GND
ENERGY
GND
VCC
IOCSVRN
IOCSREGN
IOWRLN
IOWRHN
IORDN
GND
VCC
GND
INTN
WAITN
D0
D1
VCC
D2
D3
D4
D5
D6
D7
GND
VCC
D8
D9
D10
D11
D12
D13
D14
RESET
SWAP
A14
A13
A12
A11
A10
A9
A8
A7
A6
A5
A4
A3
A2
A1
VCC
GND
VSS
VCC
GND
XTAL1
XTAL2
VSOFFN
VCC
VSS
T
W
D15
CS_MCE\
CS_IOCE\
LWR\
HWR\
RD\
WAIT\
DP0
DP1
DP2
DP3
DP4
DP5
DP6
DP7
DP8
DP9
DP10
DP11
DP12
DP13
DP14
DP15
DP[15..0]
R156
10KJ
M2\
M1\
M0\
G3
G2
G1
G0
CK
BR117
10kJX4
BR95
10kJX4
R128
10KJ
R129
10KJ
R95
10KJ
BR67
10kJX4
GND2
C361
100uF/6.3V
(1-8C)
RES_LCDC\
AP[21..0]
AP14
AP13
AP12
AP11
AP10
AP9
AP8
AP7
AP6
AP5
AP4
AP3
AP2
AP1
+3.3V_OP
C359
0.1uF
C360
0.1uF
C362
0.1uF
C403
0.1uF
C432
0.1uF
C431
0.1uF
C402
0.1uF
C358
0.1uF
GND2

MFPC2 PWB (A/D & UART & OUTPUT)

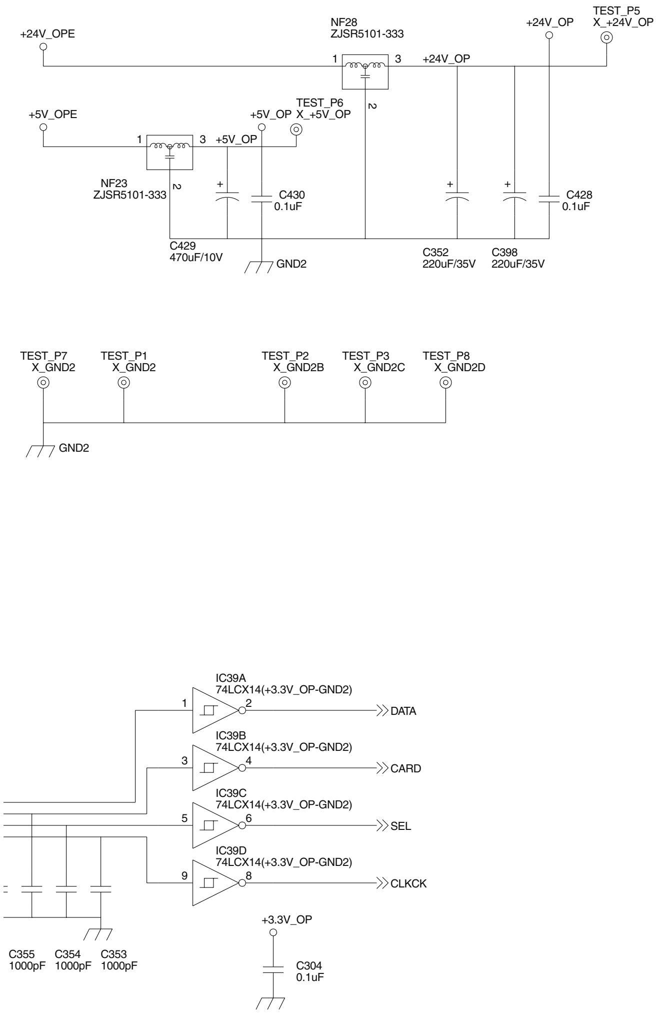

+5V_OP
+3.3V_OP
IC16A
LM358
R43
10KF
D16
MA704A
PD
C212
22000pF
R44
20KF
GND2
+3.3V_OP
R42
12KJ
R30
1.2KJ
R31
1.2KJ
TH1
TH2
PD(+3.3V)in
X2
Y2
D18
DAN202U
X2\
Y2\
D17
DAP202U
Q10
DTC114YUA
Q9
DTC114YUA
Q11
DTC114YUA
SWon
Xon
Yon
R32
1.2KJ
R33
1.2KJ
C143
10000pF
C147
10000pF
C145
1000pF
C148
10000pF
IC17F
74LCX14(+3.3V_OP-GND2)
Q16
DTA114EUA
47K
10K
IC48A
74LCX14(+3.3V_OP-GND2)
Q29
DTA114EUA
R89
30KJ
IC48B
74LCX14(+3.3V_OP-GND2)
Q28
DTA114EUA
X1
Y1
IC16B
LM358
R41
1.2KJ
LCD_CON
C215
1000pF
C214
1000pF
D15
DAN202U
D14
DAP202U
LCD_VEE
D39
DAN202U
D40
DAN202U
D38
DAN202U
4.7KJ
R188
R190
R239
R240
R241
R242
BR127
33JX4
R189
R187
33J
SENSE0\
SENSE1\
SENSE2\
SENSE3\
SENSE4\
/OCSW
1000pF
C476
C477
C435
C434
C433
C436
D43
DAP202U
D44
DAP202U
D45
DAP202U
IC48C
74LCX14(+3.3V_OP-GND2)
IC48D
74LCX14(+3.3V_OP-GND2)
IC48E
74LCX14(+3.3V_OP-GND2)
IC48F
74LCX14(+3.3V_OP-GND2)
IC39E
74LCX14(+3.3V_OP-GND2)
IC39F
74LCX14(+3.3V_OP-GND2)
SENSE0
SENSE1
SENSE2
SENSE3
SENSE4
OCSW
to C
C216
0.1uF
IC24
VCC_GND
C439
0.1uF
IC38
VCC_GND
C479
0.1uF
IC45
VCC_GND


4
3
2
1
D
C
B
A
IC28
TD62503F
RxD_OPE_(3.3V)
DSR_OPE_(3.3V)
SCAN0
SCAN1
SCAN2
SCAN3
SCAN4
I1 I2 I3 I4 I5 I6 I7 G
O1 O2 O3 O4 O5 O6 O7 NC
/RXD_OPE
/DSR_OPE
SCAN0\
SCAN1\
SCAN2\
SCAN3\
SCAN4\
GND2
+3.3V_OP
D23
DAN202U
D21
DAN202U
K
A1
A2
K1
K2
R92
1KJ
R91
1KJ
R90
1KJ
12/15(C7)
JP ②
BR66 33JX4
IC17C
IC17D
IC17E
74LCX14(+3.3V_OP-GND2)
TxD_OPE_(3.3V)
DTR_OPE_(3.3V)
RES_OPE_(3.3V)
/TXD_OPE
/DTR_OPE
/POF_ICU
/RES_OP
/RES_OPE
D22
DAP202U
D20
DAP202U
A
C303
1000pF
C301
1000pF
C302
1000pF
LCD_VEE
+3.3V_OP
R93
4.7KJ
R94
4.7KJ
IC29
TD62503F
BZR_PWM
PDSEL0\
PDSEL1\
PDSEL2\
LED0\
LED1\
BZR_PWM\
PDSEL0
PDSEL1
PDSEL2
LED0
LED1
+5V_OP
R155
1.2KJ
R154
1.2KJ
C357
0.22uF/50V
C399
0.22uF/50V
IC44
TD62003AF
CCFT_PWM
SEG0
SEG1
SEG2
SEG3
GND
SK
/LED0
/LED1
CCFT_PWM\
SEG0\
SEG1\
SEG2\
SEG3\
+24V_OP
C400
22000pF
D30
DAP202U
to CPU Port
+5V_OP
R185
20KJ
R234
20KJ
R183
20KJ
R186
1KJ
R235
1KJ
R184
1KJ
Q24
2SB1197K
Q26
2SB1197K
Q22
2SB1197K
COM0\
COM1\
COM2\
Q25
DTC114YUA
Q27
DTC114YUA
Q23
DTC114YUA
COM2
COM1
COM0
R237
X_4.7KJ
R236
X_4.7KJ
R238
X_4.7KJ

MFPC2 PWB (OPE CONTROL CONNECTOR)



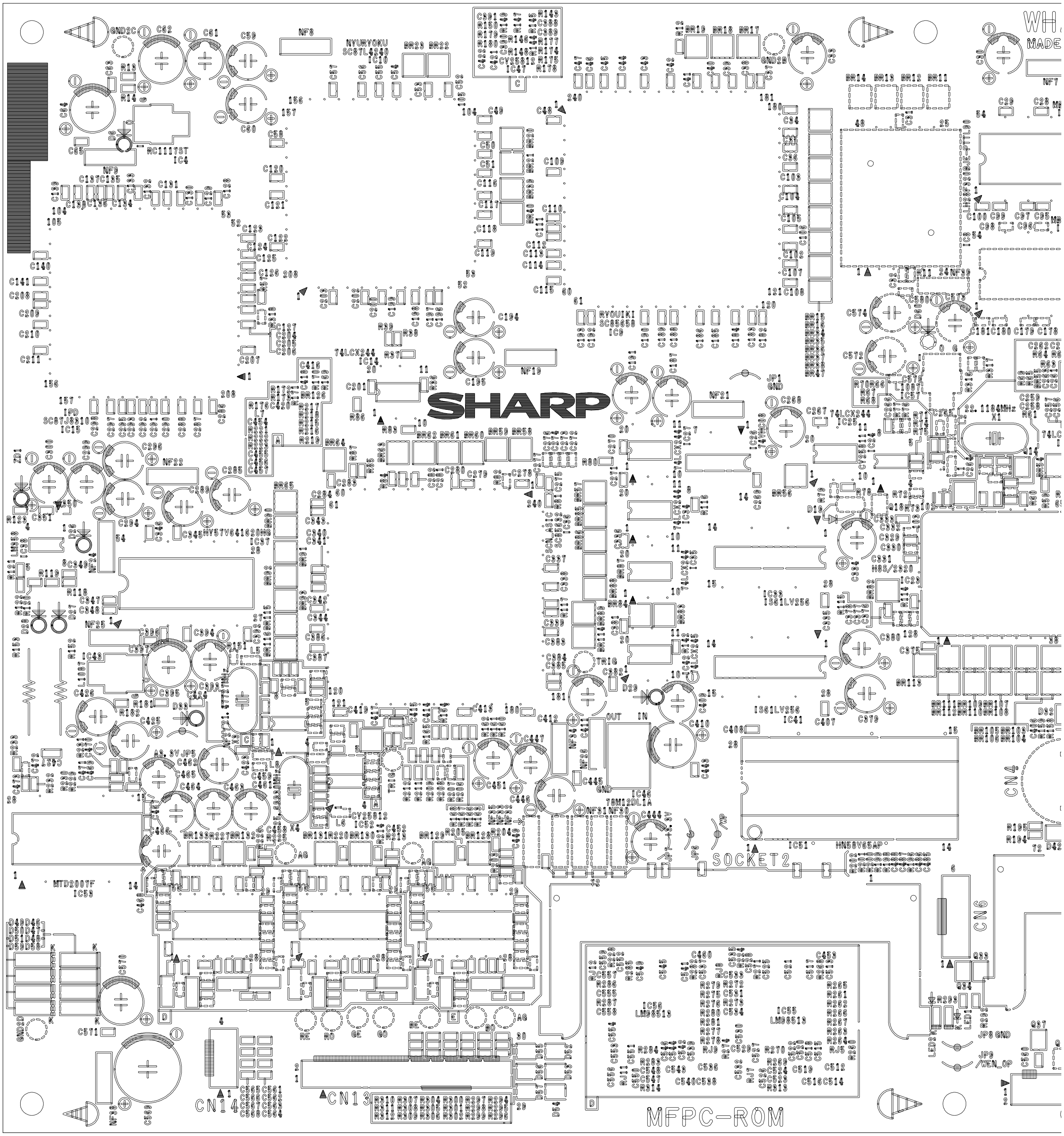
CN3
30FMZ-BT
Y2\
X2\
Y1
X1
CCFT_PWM\
+24V_OP
+24V_OP
TH1
GND2
LCDD3-
LCDD3+
LCDD2-
LCDD2+
LCDD1-
LCDD1+
LCDD0-
LCDD0+
LCD_VEE
+3.3V_OP
LVDS
PWB
LCDDIS
GND2
LCDCP2-
LCDCP2+
GND2
LCDCP1-
LCDCP1+
LCDM-
LCDM+
LCDS-
LCDS+
GND2
+24V_OPE
+5V_OPE
TEST_P7
X_GND2
GND2
CN9
B10B-PHDSS
+5V_OP
D36
DAN202U
D34
DAN202U
D37
DAP202U
D35
DAP202U
R126
1KJ
R125
1KJ
R124
1KJ
R127
1KJ
BR94
33JX4
/DATA
/CARD
/SEL
/CLOCK
C356
1000pF
C355
1000pF
C354
1000pF
CN5
26FMZ-BT
SCAN0\
SCAN1\
SCAN2\
SCAN3\
SCAN4\
SENSE0\
SENSE1\
SENSE2\
SENSE3\
SENSE4\
SEG0\
SEG1\
SEG2\
SEG3\
COM0
COM1
COM2
FRDY
BZR_PWM\
PDSEL0
PDSEL1
PDSEL2
+5V_OP
PD
FRDY
FAX_LED

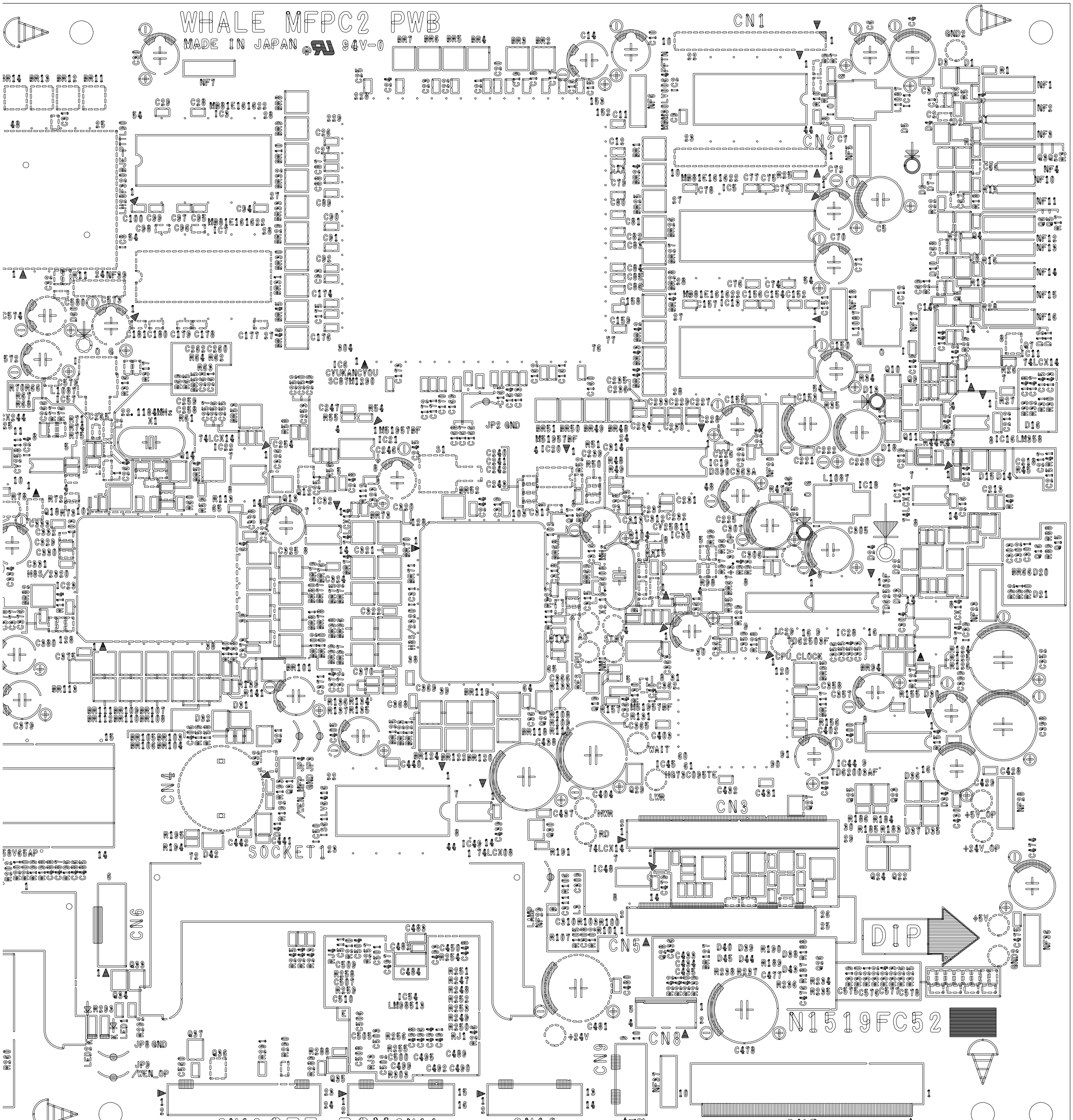

+24V_OPE
NF28
ZJSR5101-333
1
3
2
+24V_OP
+24V_OP
TEST_P5
X_+24V_OP
+5V_OPE
1
3
+5V_OP
+5V_OP
TEST_P6
X_+5V_OP
NF23
ZJSR5101-333
2
+
C430
0.1uF
+
+
C428
0.1uF
C429
470uF/10V
GND2
C352
220uF/35V
C398
220uF/35V
TEST_P7
X_GND2
TEST_P1
X_GND2
TEST_P2
X_GND2B
TEST_P3
X_GND2C
TEST_P8
X_GND2D
GND2
IC39A
74LCX14(+3.3V_OP-GND2)
1
2
DATA
IC39B
74LCX14(+3.3V_OP-GND2)
3
4
CARD
IC39C
74LCX14(+3.3V_OP-GND2)
5
6
SEL
IC39D
74LCX14(+3.3V_OP-GND2)
9
8
CLKCK
+3.3V_OP
C304
0.1uF
C355
1000pF
C354
1000pF
C353
1000pF

MFPC2 PWB

PARTS LAYOUT / 部品配置図

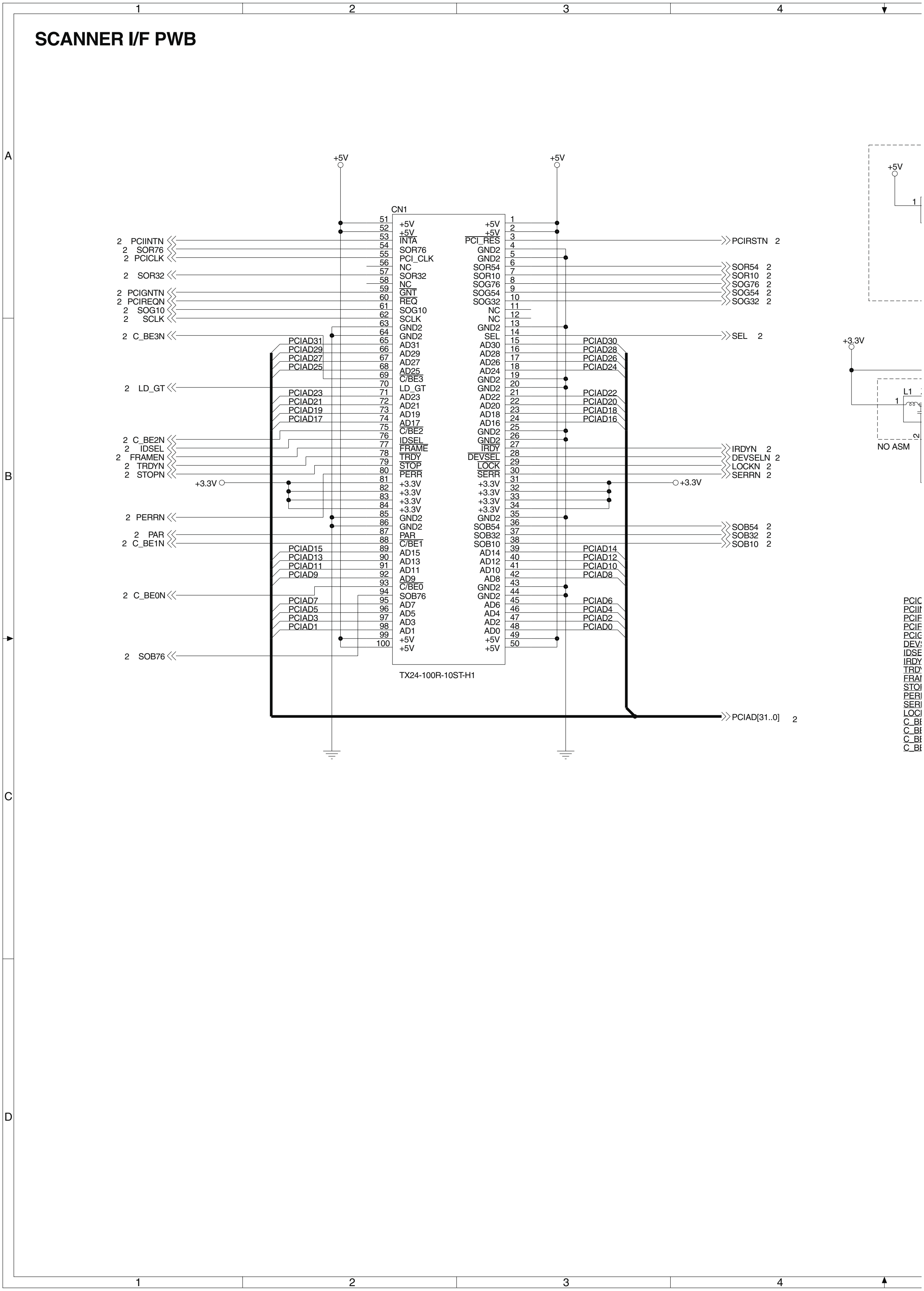
[PARTS SURFACE / 部品面]


SHARP
MFPC-ROM
SOCKET2
CN13
CN14
CN4
CN6
NYURYOKU
RYOUIKI

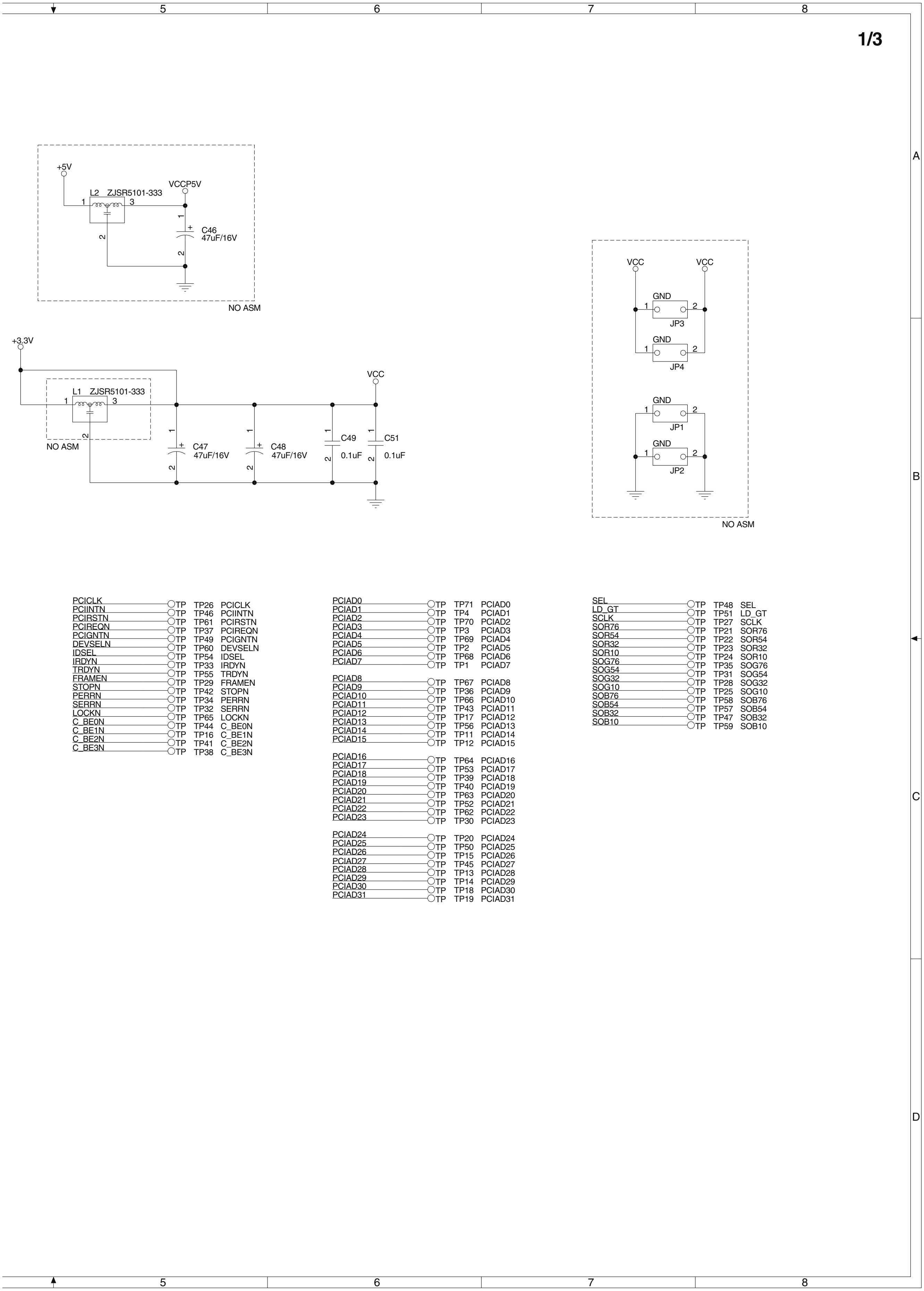

WHALE MFPC2 PWB
MADE IN JAPAN
94V-0
CN1
CN2
CN3
CN4
CN5
CN6
CN7
CN8
CN9
CN10
CN11
CN12
OPE-ROM
SOCKET1
DIP
N1519FC52
X1
NF1
JP2 GND
JP8 GND
JP9 /WEN_OP
IC54 LM98519
+24V
+5V
+24V_OP
+5V_OP
WAIT
HWR
RD
LWR
CPU_CLOCK
22.1184MHz

D. SCANNER I/F PWB / スキャナ I/F PWB

SCANNER I/F PWB

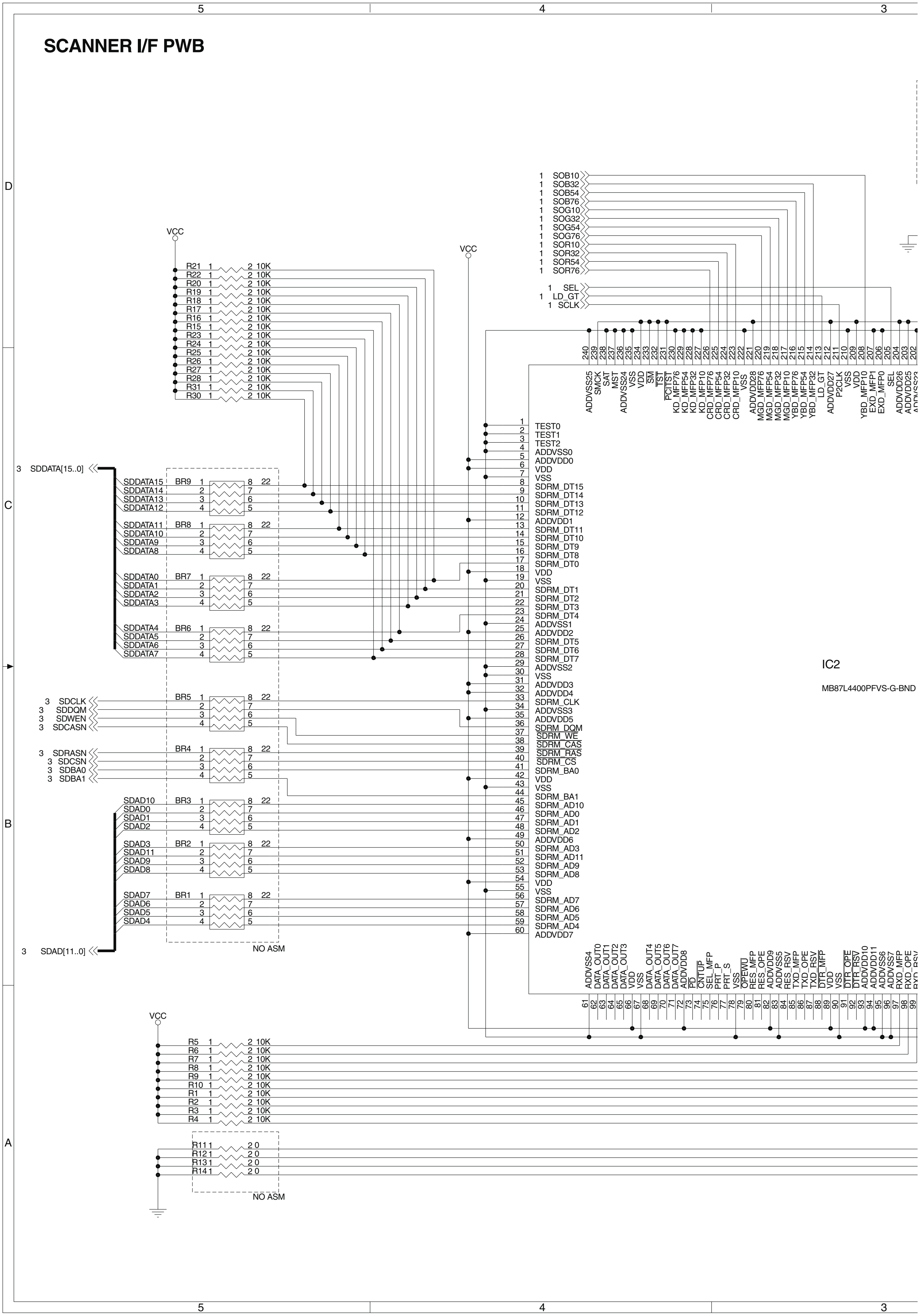


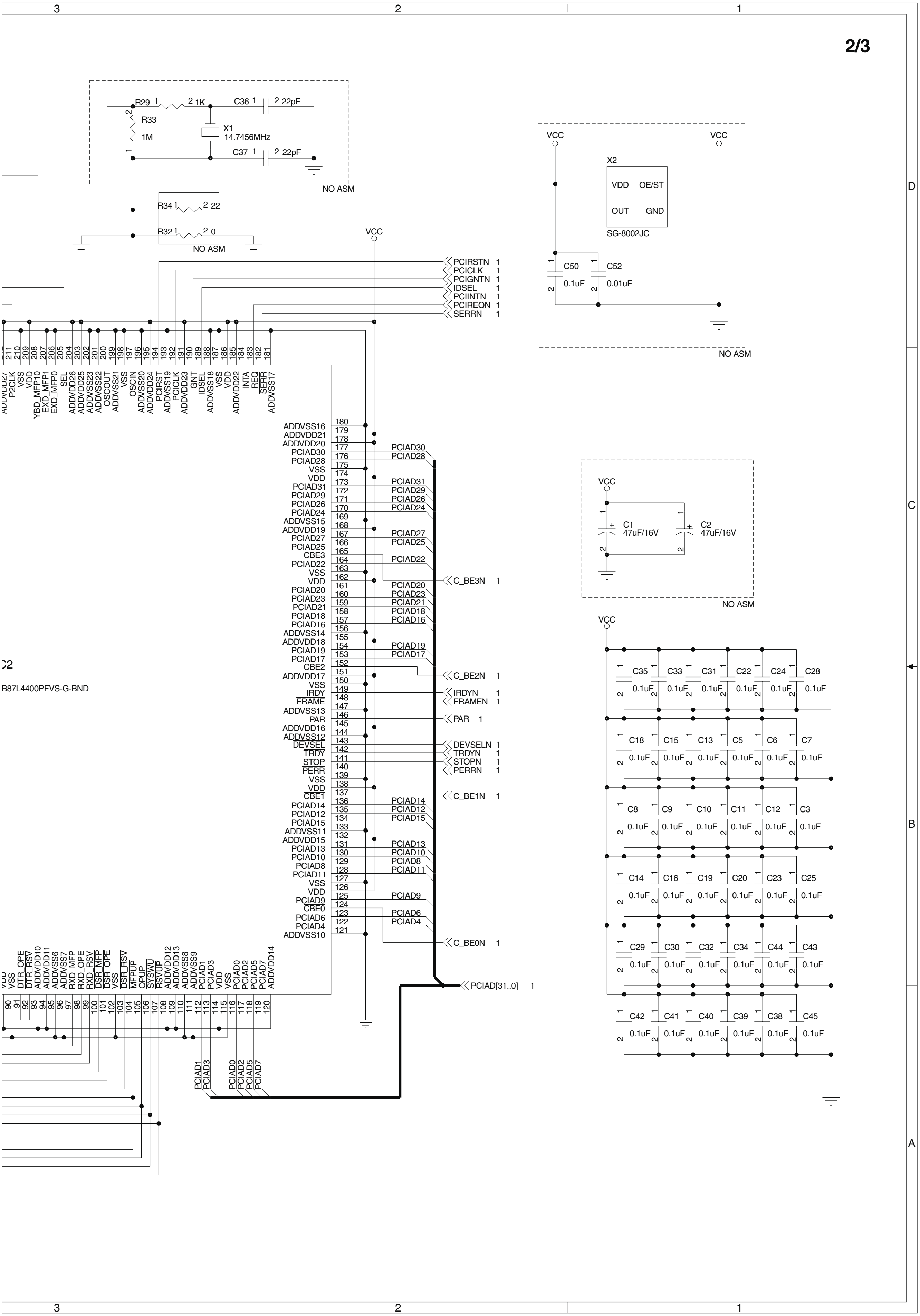
1
2
3
4
A
B
C
D
+5V
+5V
+5V
CN1
51 +5V
52 +5V
53 INTA
54 SOR76
55 PCI_CLK
56 NC
57 SOR32
58 NC
59 GNT
60 REQ
61 SOG10
62 SCLK
63 GND2
64 GND2
65 AD31
66 AD29
67 AD27
68 AD25
69 C/BE3
70 LD_GT
71 AD23
72 AD21
73 AD19
74 AD17
75 C/BE2
76 IDSEL
77 FRAME
78 TRDY
79 STOP
80 PERR
81 +3.3V
82 +3.3V
83 +3.3V
84 +3.3V
85 GND2
86 GND2
87 PAR
88 C/BE1
89 AD15
90 AD13
91 AD11
92 AD9
93 C/BE0
94 SOB76
95 AD7
96 AD5
97 AD3
98 AD1
99 +5V
100 +5V
1 +5V
2 +5V
3 PCI_RES
4 GND2
5 GND2
6 SOR54
7 SOR10
8 SOG76
9 SOG54
10 SOG32
11 NC
12 NC
13 GND2
14 SEL
15 AD30
16 AD28
17 AD26
18 AD24
19 GND2
20 GND2
21 AD22
22 AD20
23 AD18
24 AD16
25 GND2
26 GND2
27 IRDY
28 DEVSEL
29 LOCK
30 SERR
31 +3.3V
32 +3.3V
33 +3.3V
34 +3.3V
35 GND2
36 SOB54
37 SOB32
38 SOB10
39 AD14
40 AD12
41 AD10
42 AD8
43 GND2
44 GND2
45 AD6
46 AD4
47 AD2
48 AD0
49 +5V
50 +5V
TX24-100R-10ST-H1
2 PCIINTN
2 SOR76
2 PCICLK
2 SOR32
2 PCIGNTN
2 PCIREQN
2 SOG10
2 SCLK
2 C_BE3N
2 LD_GT
2 C_BE2N
2 IDSEL
2 FRAMEN
2 TRDYN
2 STOPN
+3.3V
2 PERRN
2 PAR
2 C_BE1N
2 C_BE0N
2 SOB76
PCIAD31
PCIAD29
PCIAD27
PCIAD25
PCIAD23
PCIAD21
PCIAD19
PCIAD17
PCIAD15
PCIAD13
PCIAD11
PCIAD9
PCIAD7
PCIAD5
PCIAD3
PCIAD1
PCIAD30
PCIAD28
PCIAD26
PCIAD24
PCIAD22
PCIAD20
PCIAD18
PCIAD16
PCIAD14
PCIAD12
PCIAD10
PCIAD8
PCIAD6
PCIAD4
PCIAD2
PCIAD0
PCIRSTN 2
SOR54 2
SOR10 2
SOG76 2
SOG54 2
SOG32 2
SEL 2
IRDYN 2
DEVSELN 2
LOCKN 2
SERRN 2
+3.3V
SOB54 2
SOB32 2
SOB10 2
PCIAD[31..0] 2
+3.3V
L1
1
2
NO ASM
1



1/3
5
6
7
8
A
B
C
D
+5V
L2 ZJSR5101-333
1
3
2
VCCP5V
C46
47uF/16V
NO ASM
+3.3V
L1 ZJSR5101-333
NO ASM
VCC
C47
47uF/16V
C48
47uF/16V
C49
0.1uF
C51
0.1uF
VCC
VCC
GND
JP3
GND
JP4
GND
JP1
GND
JP2
NO ASM
PCICLK TP TP26 PCICLK
PCIINTN TP TP46 PCIINTN
PCIRSTN TP TP61 PCIRSTN
PCIREQN TP TP37 PCIREQN
PCIGNTN TP TP49 PCIGNTN
DEVSELN TP TP60 DEVSELN
IDSEL TP TP54 IDSEL
IRDYN TP TP33 IRDYN
TRDYN TP TP55 TRDYN
FRAMEN TP TP29 FRAMEN
STOPN TP TP42 STOPN
PERRN TP TP34 PERRN
SERRN TP TP32 SERRN
LOCKN TP TP65 LOCKN
C_BE0N TP TP44 C_BE0N
C_BE1N TP TP16 C_BE1N
C_BE2N TP TP41 C_BE2N
C_BE3N TP TP38 C_BE3N
PCIAD0 TP TP71 PCIAD0
PCIAD1 TP TP4 PCIAD1
PCIAD2 TP TP70 PCIAD2
PCIAD3 TP TP3 PCIAD3
PCIAD4 TP TP69 PCIAD4
PCIAD5 TP TP2 PCIAD5
PCIAD6 TP TP68 PCIAD6
PCIAD7 TP TP1 PCIAD7
PCIAD8 TP TP67 PCIAD8
PCIAD9 TP TP36 PCIAD9
PCIAD10 TP TP66 PCIAD10
PCIAD11 TP TP43 PCIAD11
PCIAD12 TP TP17 PCIAD12
PCIAD13 TP TP56 PCIAD13
PCIAD14 TP TP11 PCIAD14
PCIAD15 TP TP12 PCIAD15
PCIAD16 TP TP64 PCIAD16
PCIAD17 TP TP53 PCIAD17
PCIAD18 TP TP39 PCIAD18
PCIAD19 TP TP40 PCIAD19
PCIAD20 TP TP63 PCIAD20
PCIAD21 TP TP52 PCIAD21
PCIAD22 TP TP62 PCIAD22
PCIAD23 TP TP30 PCIAD23
PCIAD24 TP TP20 PCIAD24
PCIAD25 TP TP50 PCIAD25
PCIAD26 TP TP15 PCIAD26
PCIAD27 TP TP45 PCIAD27
PCIAD28 TP TP13 PCIAD28
PCIAD29 TP TP14 PCIAD29
PCIAD30 TP TP18 PCIAD30
PCIAD31 TP TP19 PCIAD31
SEL TP TP48 SEL
LD_GT TP TP51 LD_GT
SCLK TP TP27 SCLK
SOR76 TP TP21 SOR76
SOR54 TP TP22 SOR54
SOR32 TP TP23 SOR32
SOR10 TP TP24 SOR10
SOG76 TP TP35 SOG76
SOG54 TP TP31 SOG54
SOG32 TP TP28 SOG32
SOG10 TP TP25 SOG10
SOB76 TP TP58 SOB76
SOB54 TP TP57 SOB54
SOB32 TP TP47 SOB32
SOB10 TP TP59 SOB10

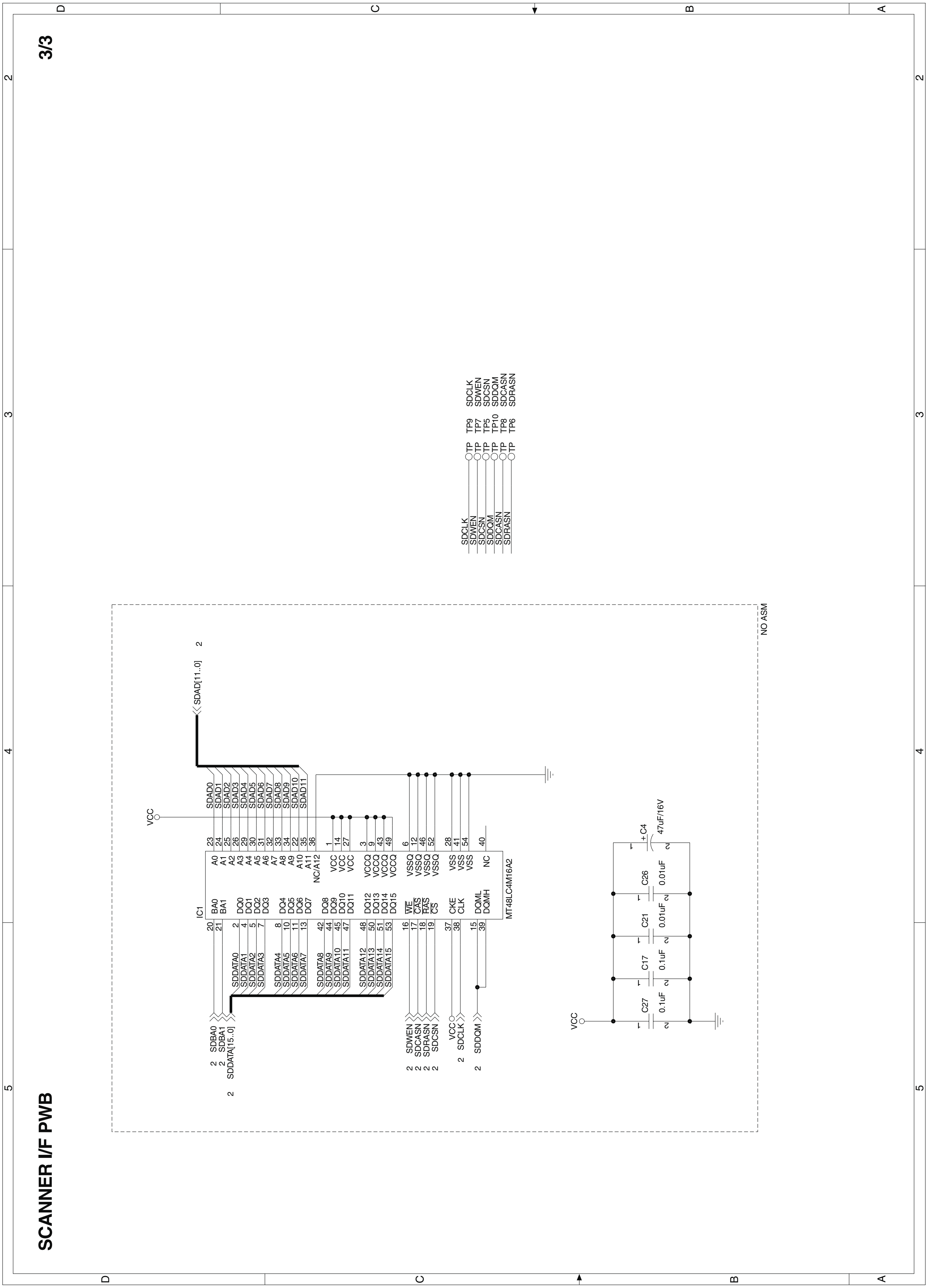
SCANNER I/F PWB


5
4
3
D
C
B
A
VCC
R21 1 2 10K
R22 1 2 10K
R20 1 2 10K
R19 1 2 10K
R18 1 2 10K
R17 1 2 10K
R16 1 2 10K
R15 1 2 10K
R23 1 2 10K
R24 1 2 10K
R25 1 2 10K
R26 1 2 10K
R27 1 2 10K
R28 1 2 10K
R31 1 2 10K
R30 1 2 10K
1 SOB10
1 SOB32
1 SOB54
1 SOB76
1 SOG10
1 SOG32
1 SOG54
1 SOG76
1 SOR10
1 SOR32
1 SOR54
1 SOR76
1 SEL
1 LD_GT
1 SCLK
240 ADDVSS25
239 SMCK
238 SAT
237 MST
236 ADDVSS24
235 VSS
234 VDD
233 SM
232 TST
231 PCITST
230 KD_MFP76
229 KD_MFP54
228 KD_MFP32
227 KD_MFP10
226 CRD_MFP76
225 CRD_MFP54
224 CRD_MFP32
223 CRD_MFP10
222 VSS
221 ADDVDD28
220 MGD_MFP76
219 MGD_MFP54
218 MGD_MFP32
217 MGD_MFP10
216 YBD_MFP76
215 YBD_MFP54
214 YBD_MFP32
213 LD_GT
212 ADDVDD27
211 P2CLK
210 VSS
209 VDD
208 YBD_MFP10
207 EXD_MFP1
206 EXD_MFP0
205 SEL
204 ADDVDD26
203 ADDVDD25
202
3 SDDATA[15..0]
SDDATA15 BR9 1 8 22
SDDATA14 2 7
SDDATA13 3 6
SDDATA12 4 5
SDDATA11 BR8 1 8 22
SDDATA10 2 7
SDDATA9 3 6
SDDATA8 4 5
SDDATA0 BR7 1 8 22
SDDATA1 2 7
SDDATA2 3 6
SDDATA3 4 5
SDDATA4 BR6 1 8 22
SDDATA5 2 7
SDDATA6 3 6
SDDATA7 4 5
3 SDCLK
3 SDDQM
3 SDWEN
3 SDCASN
BR5 1 8 22
2 7
3 6
4 5
3 SDRASN
3 SDCSN
3 SDBA0
3 SDBA1
BR4 1 8 22
2 7
3 6
4 5
SDAD10 BR3 1 8 22
SDAD0 2 7
SDAD1 3 6
SDAD2 4 5
SDAD3 BR2 1 8 22
SDAD11 2 7
SDAD9 3 6
SDAD8 4 5
SDAD7 BR1 1 8 22
SDAD6 2 7
SDAD5 3 6
SDAD4 4 5
3 SDAD[11..0]
NO ASM
1 TEST0
2 TEST1
3 TEST2
4 ADDVSS0
5 ADDVDD0
6 VDD
7 VSS
8 SDRM_DT15
9 SDRM_DT14
10 SDRM_DT13
11 SDRM_DT12
12 ADDVDD1
13 SDRM_DT11
14 SDRM_DT10
15 SDRM_DT9
16 SDRM_DT8
17 SDRM_DT0
18 VDD
19 VSS
20 SDRM_DT1
21 SDRM_DT2
22 SDRM_DT3
23 SDRM_DT4
24 ADDVSS1
25 ADDVDD2
26 SDRM_DT5
27 SDRM_DT6
28 SDRM_DT7
29 ADDVSS2
30 VSS
31 ADDVDD3
32 ADDVDD4
33 SDRM_CLK
34 ADDVSS3
35 ADDVDD5
36 SDRM_DQM
37 SDRM_WE
38 SDRM_CAS
39 SDRM_RAS
40 SDRM_CS
41 SDRM_BA0
42 VDD
43 VSS
44 SDRM_BA1
45 SDRM_AD10
46 SDRM_AD0
47 SDRM_AD1
48 SDRM_AD2
49 ADDVDD6
50 SDRM_AD3
51 SDRM_AD11
52 SDRM_AD9
53 SDRM_AD8
54 VDD
55 VSS
56 SDRM_AD7
57 SDRM_AD6
58 SDRM_AD5
59 SDRM_AD4
60 ADDVDD7
IC2
MB87L4400PFVS-G-BND
61 ADDVSS4
62 DATA_OUT0
63 DATA_OUT1
64 DATA_OUT2
65 DATA_OUT3
66 VDD
67 VSS
68 DATA_OUT4
69 DATA_OUT5
70 DATA_OUT6
71 DATA_OUT7
72 ADDVDD8
73 PD
74 CNTUP
75 SEL_MFP
76 PRT_P
77 PRT_S
78 VSS
79 OPEWU
80 RES_MFP
81 RES_OPE
82 ADDVDD9
83 ADDVSS5
84 RES_RSV
85 TXD_MFP
86 TXD_OPE
87 TXD_RSV
88 DTR_MFP
89 VDD
90 VSS
91 DTR_OPE
92 DTR_RSV
93 ADDVDD10
94 ADDVDD11
95 ADDVSS6
96 ADDVSS7
97 RXD_MFP
98 RXD_OPE
99 RXD_RSV
VCC
R5 1 2 10K
R6 1 2 10K
R7 1 2 10K
R8 1 2 10K
R9 1 2 10K
R10 1 2 10K
R1 1 2 10K
R2 1 2 10K
R3 1 2 10K
R4 1 2 10K
R11 1 2 0
R12 1 2 0
R13 1 2 0
R14 1 2 0
NO ASM


2/3
3
2
1
D
C
B
A
R29 1K
C36 22pF
R33 1M
X1 14.7456MHz
C37 22pF
NO ASM
R34 22
R32 0
NO ASM
VCC
X2
VDD OE/ST
OUT GND
SG-8002JC
C50 0.1uF
C52 0.01uF
NO ASM
PCIRSTN 1
PCICLK 1
PCIGNTN 1
IDSEL 1
PCIINTN 1
PCIREQN 1
SERRN 1
ADDVDD27
P2CLK
VSS
VDD
YBD_MFP10
EXD_MFP1
EXD_MFP0
SEL
ADDVDD26
ADDVDD25
ADDVSS23
ADDVSS22
OSCOUT
ADDVSS21
VSS
OSCIN
ADDVSS20
ADDVDD24
PCIRST
ADDVSS19
PCICLK
ADDVDD23
GNT
IDSEL
ADDVSS18
VSS
VDD
ADDVDD22
INTA
REQ
SERR
ADDVSS17
C2
B87L4400PFVS-G-BND
ADDVSS16
ADDVDD21
ADDVDD20
PCIAD30
PCIAD28
PCIAD31
PCIAD29
PCIAD26
PCIAD24
ADDVSS15
ADDVDD19
PCIAD27
PCIAD25
CBE3
PCIAD22
PCIAD20
PCIAD23
PCIAD21
PCIAD18
PCIAD16
ADDVSS14
ADDVDD18
PCIAD19
PCIAD17
CBE2
ADDVDD17
IRDY
FRAME
ADDVSS13
PAR
ADDVDD16
ADDVSS12
DEVSEL
TRDY
STOP
PERR
CBE1
PCIAD14
PCIAD12
PCIAD15
ADDVSS11
ADDVDD15
PCIAD13
PCIAD10
PCIAD8
PCIAD11
PCIAD9
CBE0
PCIAD6
PCIAD4
ADDVSS10
C_BE3N 1
C_BE2N 1
IRDYN 1
FRAMEN 1
PAR 1
DEVSELN 1
TRDYN 1
STOPN 1
PERRN 1
C_BE1N 1
C_BE0N 1
PCIAD[31..0] 1
DTR_OPE
DTR_RSV
ADDVDD10
ADDVDD11
ADDVSS6
ADDVSS7
RXD_MFP
RXD_OPE
RXD_RSV
DSR_MFP
DSR_OPE
DSR_RSV
MFPUP
OPUP
SYSWU
RSVUP
ADDVDD12
ADDVDD13
ADDVSS8
ADDVSS9
PCIAD1
PCIAD3
PCIAD0
PCIAD2
PCIAD5
PCIAD7
ADDVDD14
C1 47uF/16V
C2 47uF/16V
NO ASM
C35 C33 C31 C22 C24 C28
C18 C15 C13 C5 C6 C7
C8 C9 C10 C11 C12 C3
C14 C16 C19 C20 C23 C25
C29 C30 C32 C34 C44 C43
C42 C41 C40 C39 C38 C45
0.1uF

SCANNER I/F PWB

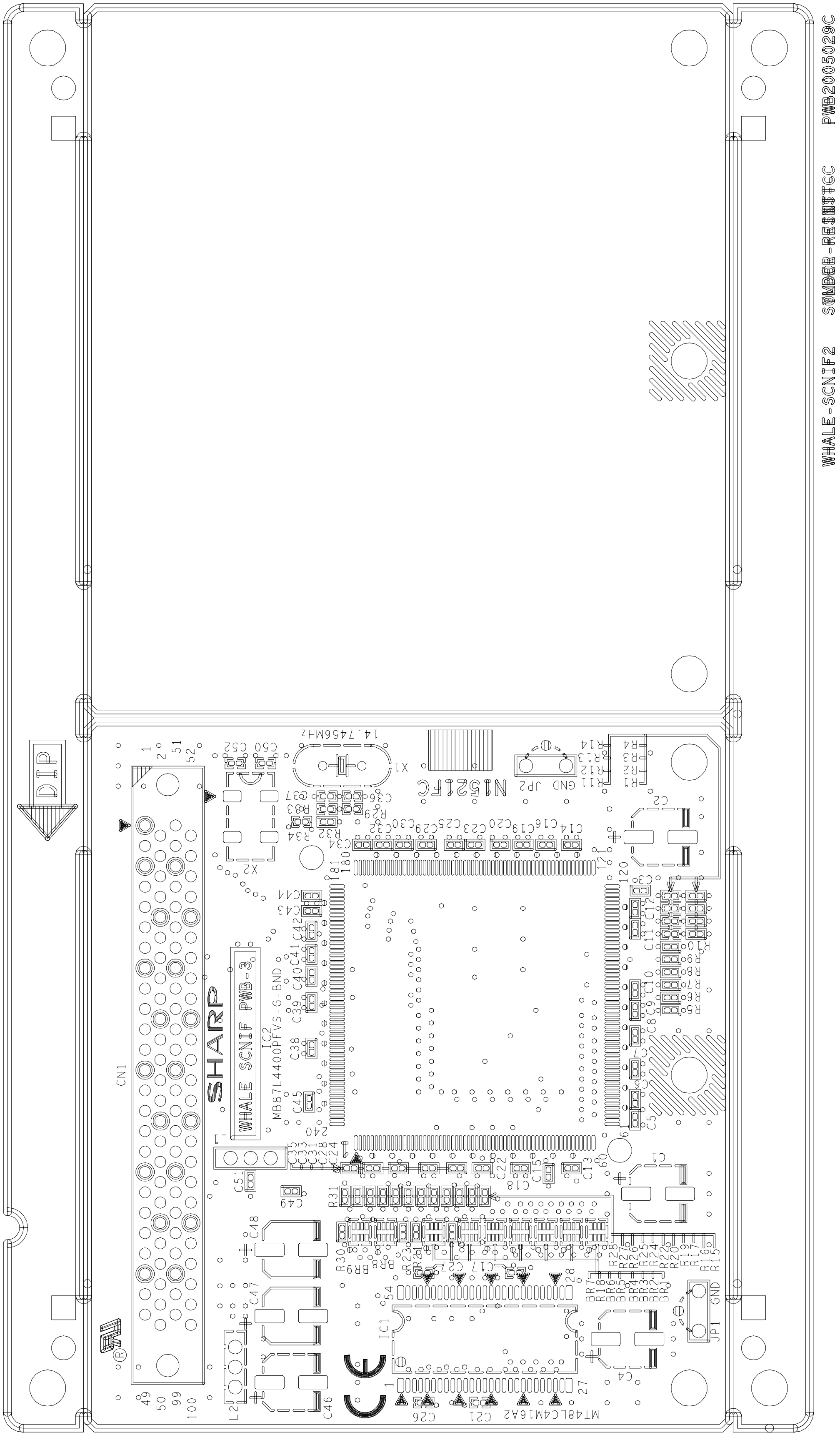
3/3


IC1
MT48LC4M16A2
VCC
SDAD[11..0] 2
SDAD0
SDAD1
SDAD2
SDAD3
SDAD4
SDAD5
SDAD6
SDAD7
SDAD8
SDAD9
SDAD10
SDAD11
A0 A1 A2 A3 A4 A5 A6 A7 A8 A9 A10 A11
NC/A12
VCC VCC VCC
VCCQ VCCQ VCCQ VCCQ
VSSQ VSSQ VSSQ VSSQ
VSS VSS VSS
NC
BA0 BA1
DQ0 DQ1 DQ2 DQ3 DQ4 DQ5 DQ6 DQ7 DQ8 DQ9 DQ10 DQ11 DQ12 DQ13 DQ14 DQ15
WE CAS RAS CS
CKE CLK
DQML DQMH
2 SDBA0
2 SDBA1
2 SDDATA[15..0]
SDDATA0 SDDATA1 SDDATA2 SDDATA3 SDDATA4 SDDATA5 SDDATA6 SDDATA7
SDDATA8 SDDATA9 SDDATA10 SDDATA11 SDDATA12 SDDATA13 SDDATA14 SDDATA15
2 SDWEN
2 SDCASN
2 SDRASN
2 SDCSN
VCC
2 SDCLK
2 SDDQM
SDCLK TP TP9 SDCLK
SDWEN TP TP7 SDWEN
SDCSN TP TP5 SDCSN
SDDQM TP TP10 SDDQM
SDCASN TP TP8 SDCASN
SDRASN TP TP6 SDRASN
C27 0.1uF
C17 0.1uF
C21 0.01uF
C26 0.01uF
C4 47uF/16V
NO ASM
A B C D
2 3 4 5

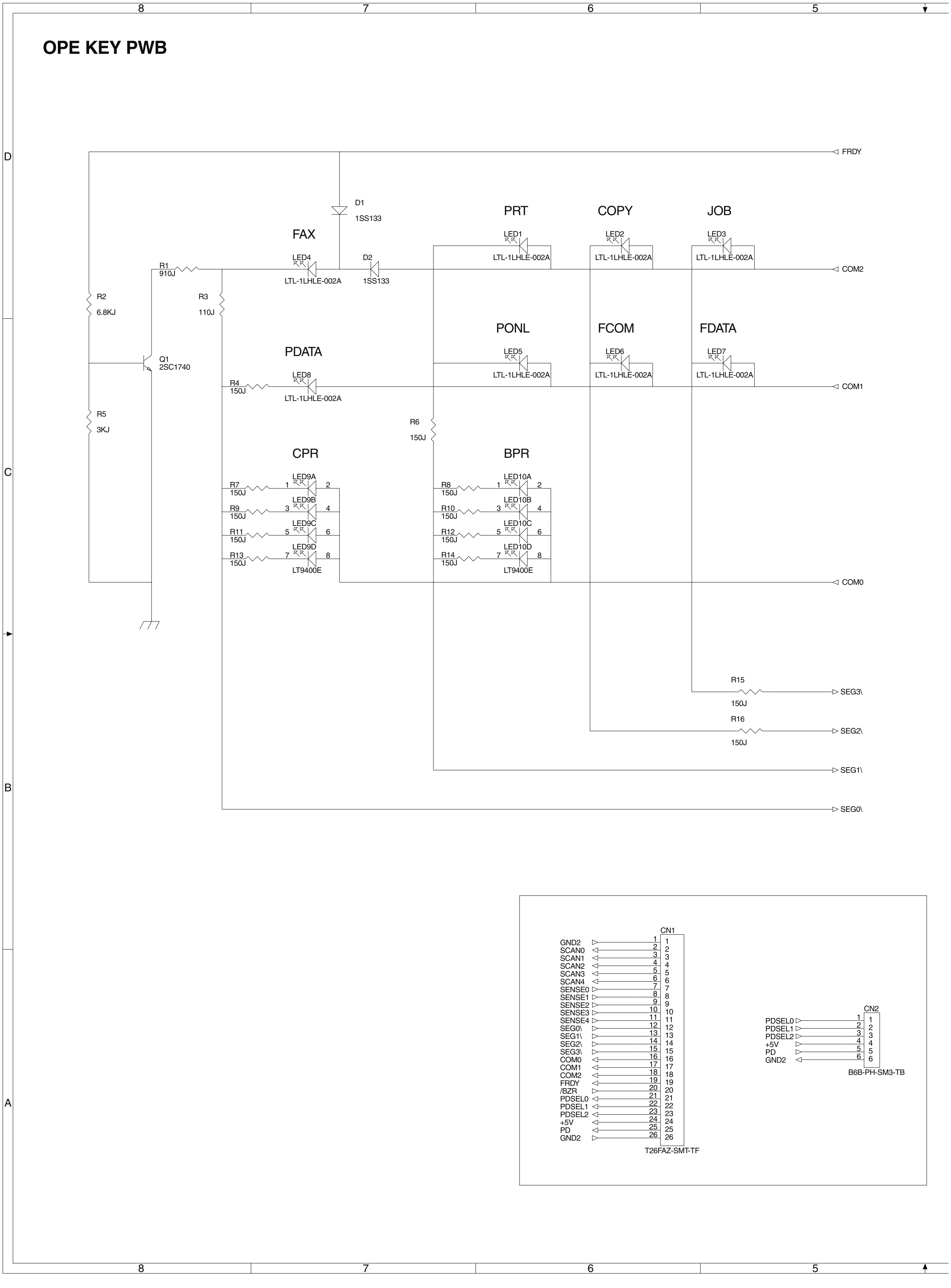
SCANNER I/F PWB

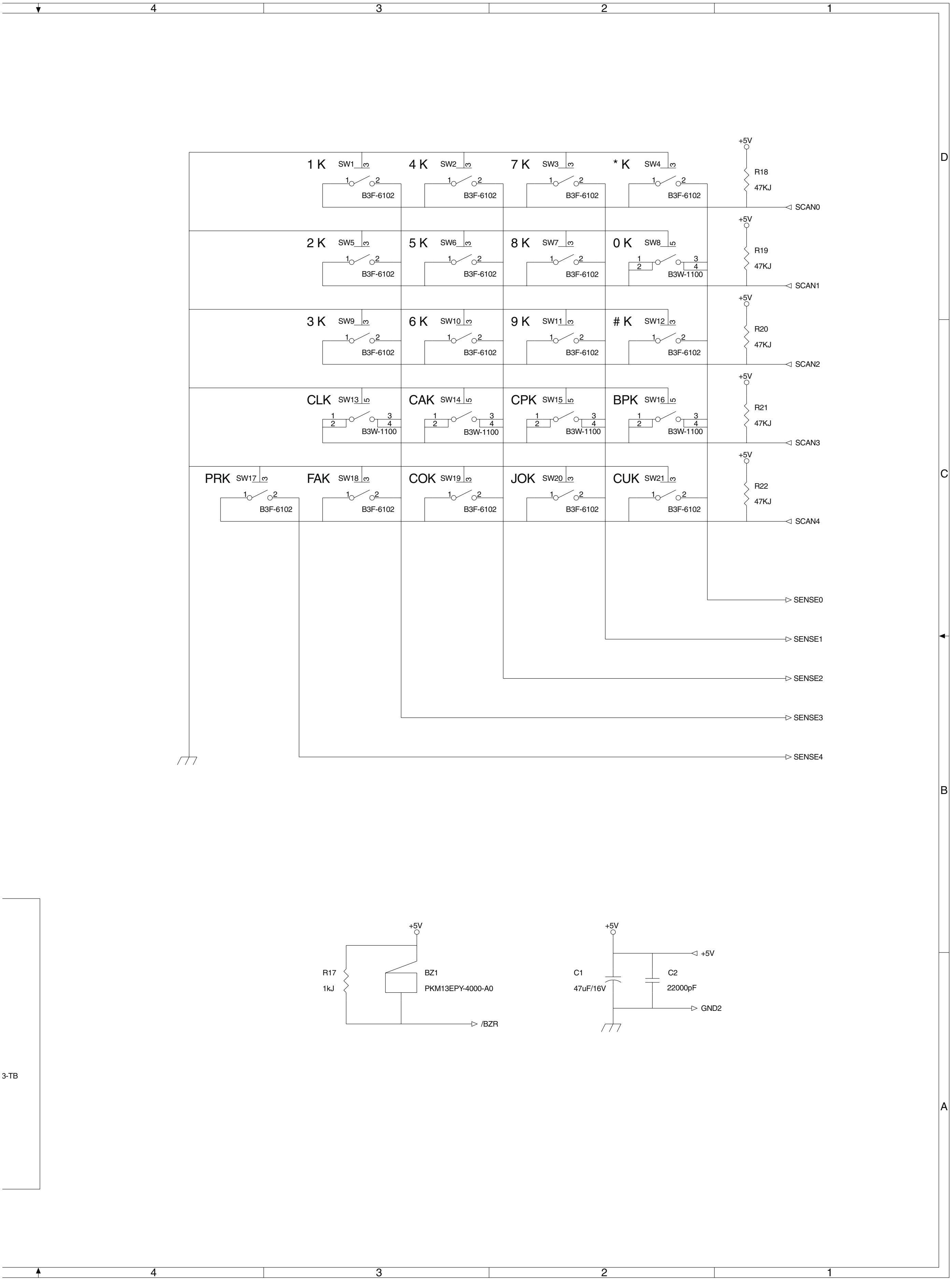
PARTS LAYOUT / 部品配置図

[PARTS SURFACE / 部品面]


PWB2005029C
WHALE-SCNIF2
SHARP
WHALE SCNIF PWB-3
MB87L4400PFVS-G-BND
IC2
IC1
MT48LC4M16A2
14.7456MHz
X1
X2
N1521FC
JP2
GND
JP1
CN1
DIP
L1
L2
C1
C2
C4
C46
C47
C48
C49
C50
C51
C52
C21
C26
1
2
51
52
49
50
99
100
180
181
240
120
121
60
61
54
27
28

E. OPE KEY PWB / オペキー PWB

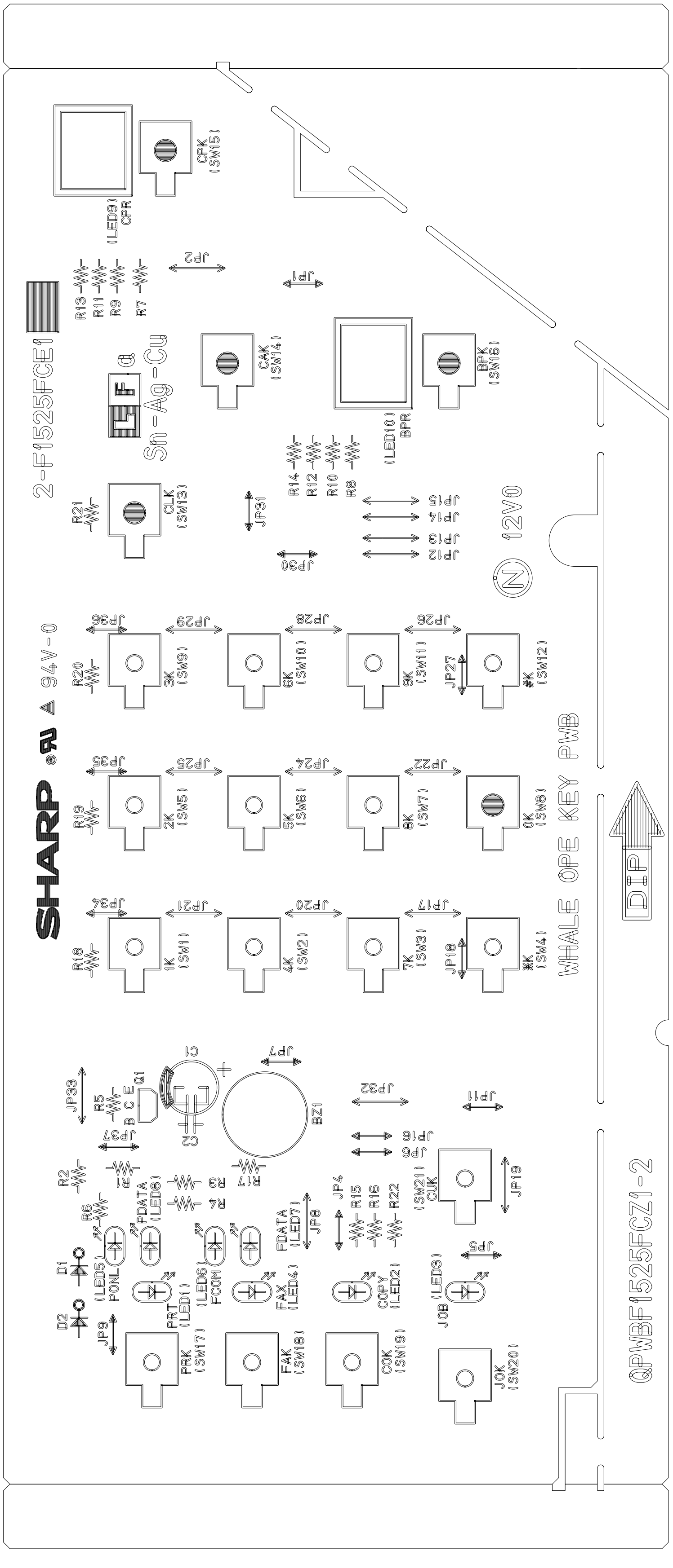

8
7
6
5
D
C
B
A
OPE KEY PWB
FRDY
D1
1SS133
FAX
LED4
LTL-1LHLE-002A
D2
1SS133
PRT
LED1
LTL-1LHLE-002A
COPY
LED2
LTL-1LHLE-002A
JOB
LED3
LTL-1LHLE-002A
COM2
R1
910J
R2
6.8KJ
R3
110J
Q1
2SC1740
PONL
LED5
LTL-1LHLE-002A
FCOM
LED6
LTL-1LHLE-002A
FDATA
LED7
LTL-1LHLE-002A
PDATA
R4
150J
LED8
LTL-1LHLE-002A
COM1
R5
3KJ
R6
150J
CPR
LED9A
LED9B
LED9C
LED9D
LT9400E
R7
150J
R9
150J
R11
150J
R13
150J
BPR
LED10A
LED10B
LED10C
LED10D
LT9400E
R8
150J
R10
150J
R12
150J
R14
150J
1
2
3
4
5
6
7
8
COM0
R15
150J
SEG3\
R16
150J
SEG2\
SEG1\
SEG0\
CN1
GND2
SCAN0
SCAN1
SCAN2
SCAN3
SCAN4
SENSE0
SENSE1
SENSE2
SENSE3
SENSE4
SEG0\
SEG1\
SEG2\
SEG3\
COM0
COM1
COM2
FRDY
/BZR
PDSEL0
PDSEL1
PDSEL2
+5V
PD
GND2
T26FAZ-SMT-TF
CN2
PDSEL0
PDSEL1
PDSEL2
+5V
PD
GND2
B6B-PH-SM3-TB


4
3
2
1
D
C
B
A
+5V
R18
47KJ
SCAN0
R19
47KJ
SCAN1
R20
47KJ
SCAN2
R21
47KJ
SCAN3
R22
47KJ
SCAN4
1 K
SW1
4 K
SW2
7 K
SW3
* K
SW4
2 K
SW5
5 K
SW6
8 K
SW7
0 K
SW8
3 K
SW9
6 K
SW10
9 K
SW11
# K
SW12
CLK
SW13
CAK
SW14
CPK
SW15
BPK
SW16
PRK
SW17
FAK
SW18
COK
SW19
JOK
SW20
CUK
SW21
B3F-6102
B3W-1100
SENSE0
SENSE1
SENSE2
SENSE3
SENSE4
R17
1kJ
BZ1
PKM13EPY-4000-A0
/BZR
C1
47uF/16V
C2
22000pF
GND2
3-TB

OPE PWB / オペキーPWB

PARTS LAYOUT / 部品配置図

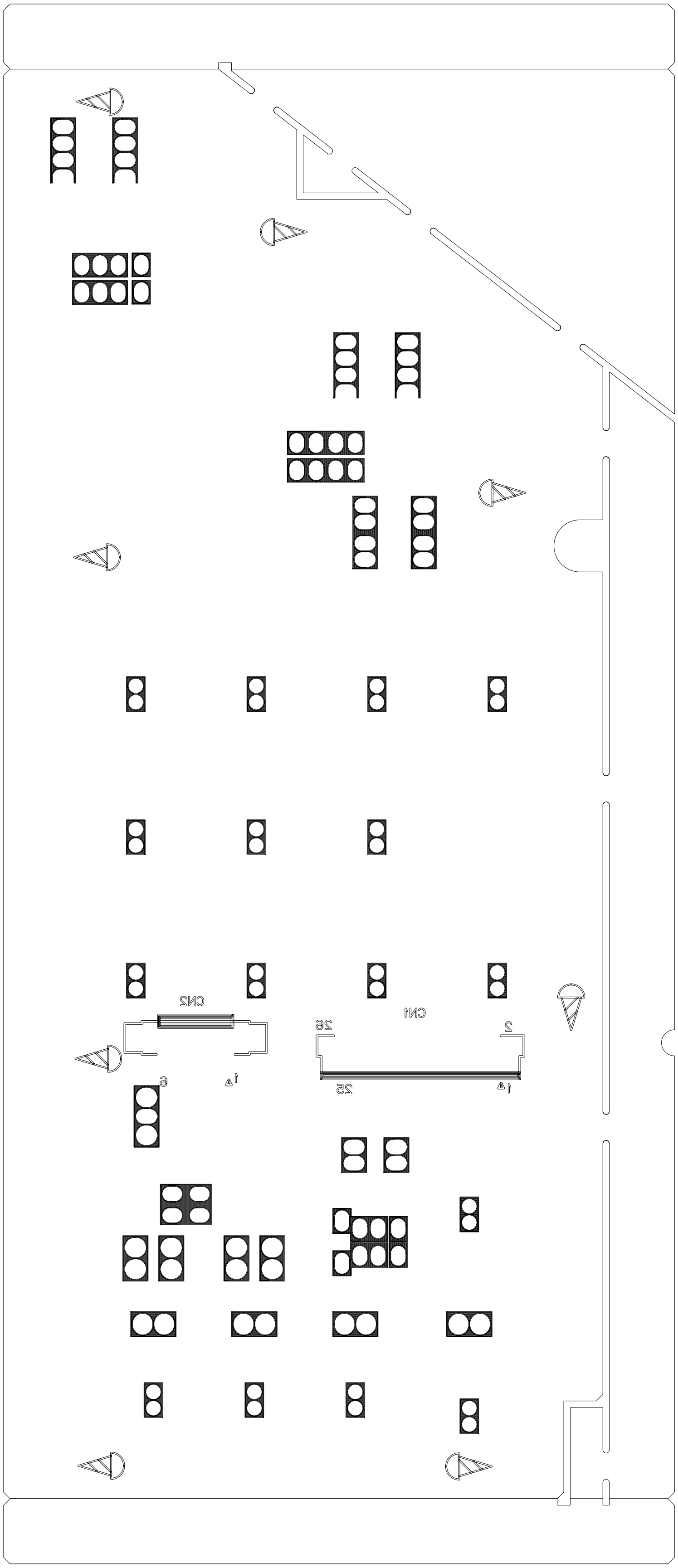
[PARTS SURFACE / 部品面]


CPK (SW15)
(LED9) CPR
JP2
JP1
R13
R11
R9
R7
2-F1525FCE1
LF
Sn-Ag-Cu
CAK (SW14)
BPK (SW16)
(LED10) BPR
R14
R12
R10
R8
JP15
JP14
JP13
JP12
12V0
CLK (SW13)
R21
JP31
JP30
JP36
JP29
JP28
JP26
R20
3K (SW9)
6K (SW10)
9K (SW11)
JP27
#K (SW12)
94V-0
SHARP
JP35
JP25
JP24
JP22
R19
2K (SW5)
5K (SW6)
8K (SW7)
0K (SW8)
WHALE OPE KEY PWB
DIP
JP34
JP21
JP20
JP17
R18
1K (SW1)
4K (SW2)
7K (SW3)
JP18
*K (SW4)
C1
JP7
JP33
R5
B C E Q1
JP32
BZ1
JP11
JP37
C2
JP16
JP6
R2
R1
R17
R3
R4
CUK (SW21)
JP19
JP4
R15
R16
R22
R6
PDATA (LED8)
FDATA (LED7)
JP8
JP5
D1
D2
(LED5) PONL
(LED6) FCOM
FAX (LED4)
COPY (LED2)
(LED3) JOB
PRT (LED1)
JP9
PRK (SW17)
FAK (SW18)
COK (SW19)
JOK (SW20)
QPWBF1525FCZ1-2

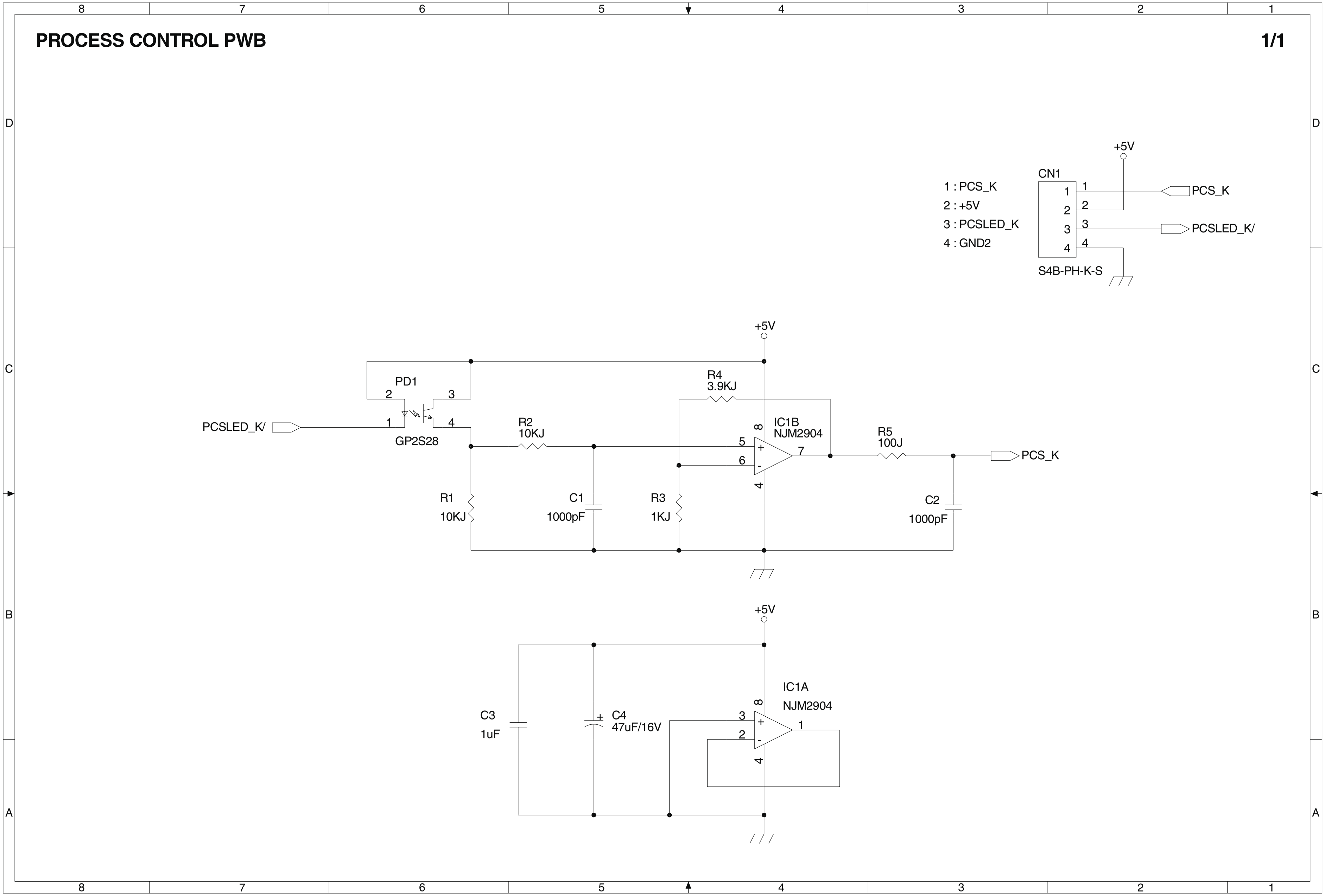
OPE PWB / オペキーPWB

PARTS LAYOUT / 部品配置図

[SOLDER SURFACE / 半田面]


CN2
CN1
26
2
6
1
25
1

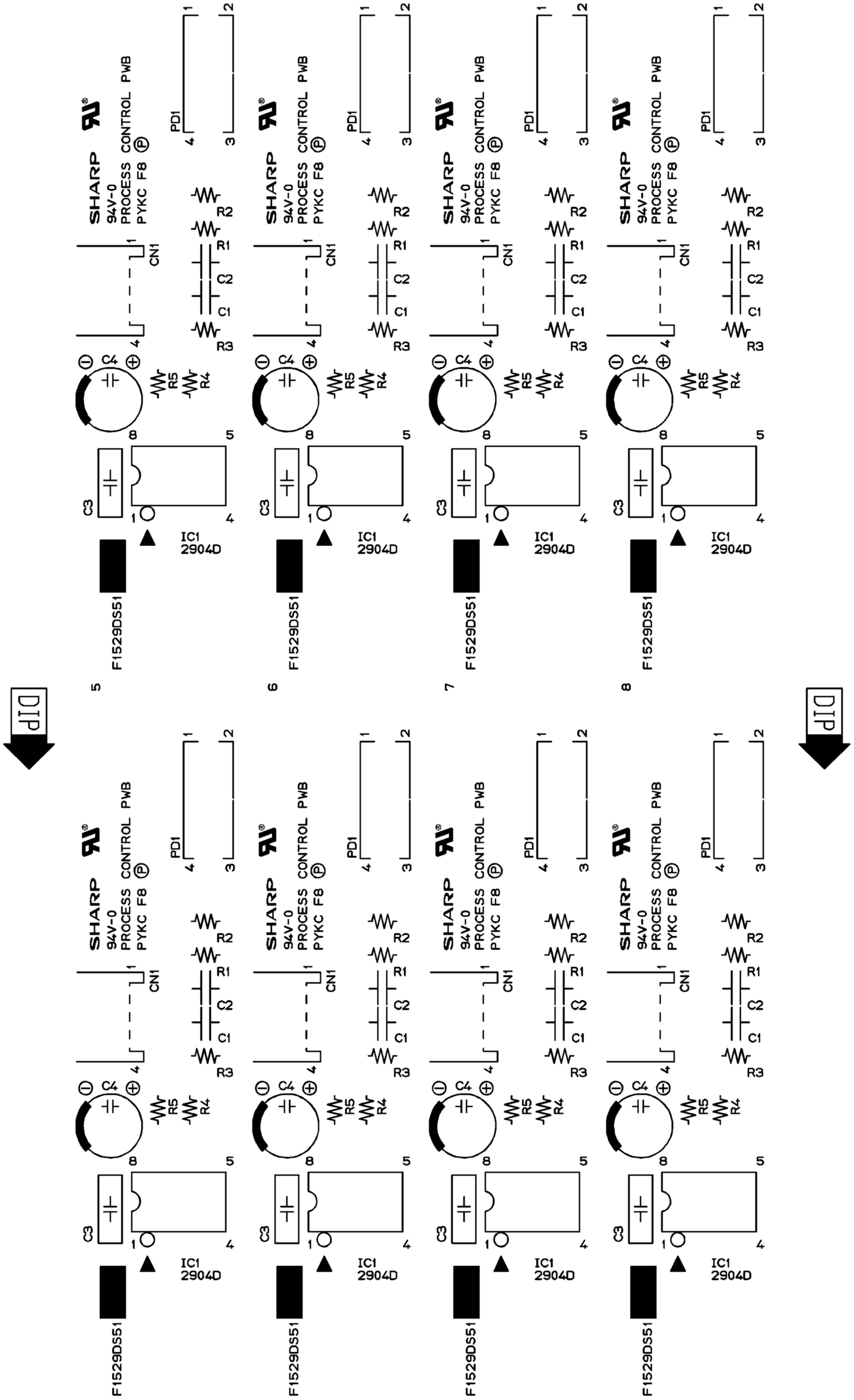
F. PROCESS CONTROL PWB / プロセスコントロール PWB


PROCESS CONTROL PWB
1/1
8
7
6
5
4
3
2
1
D
C
B
A
+5V
CN1
1 : PCS_K
2 : +5V
3 : PCSLED_K
4 : GND2
1
2
3
4
S4B-PH-K-S
PCS_K
PCSLED_K/
PD1
GP2S28
PCSLED_K/
R1
10KJ
R2
10KJ
C1
1000pF
R3
1KJ
R4
3.9KJ
IC1B
NJM2904
R5
100J
C2
1000pF
PCS_K
IC1A
NJM2904
C3
1uF
C4
47uF/16V

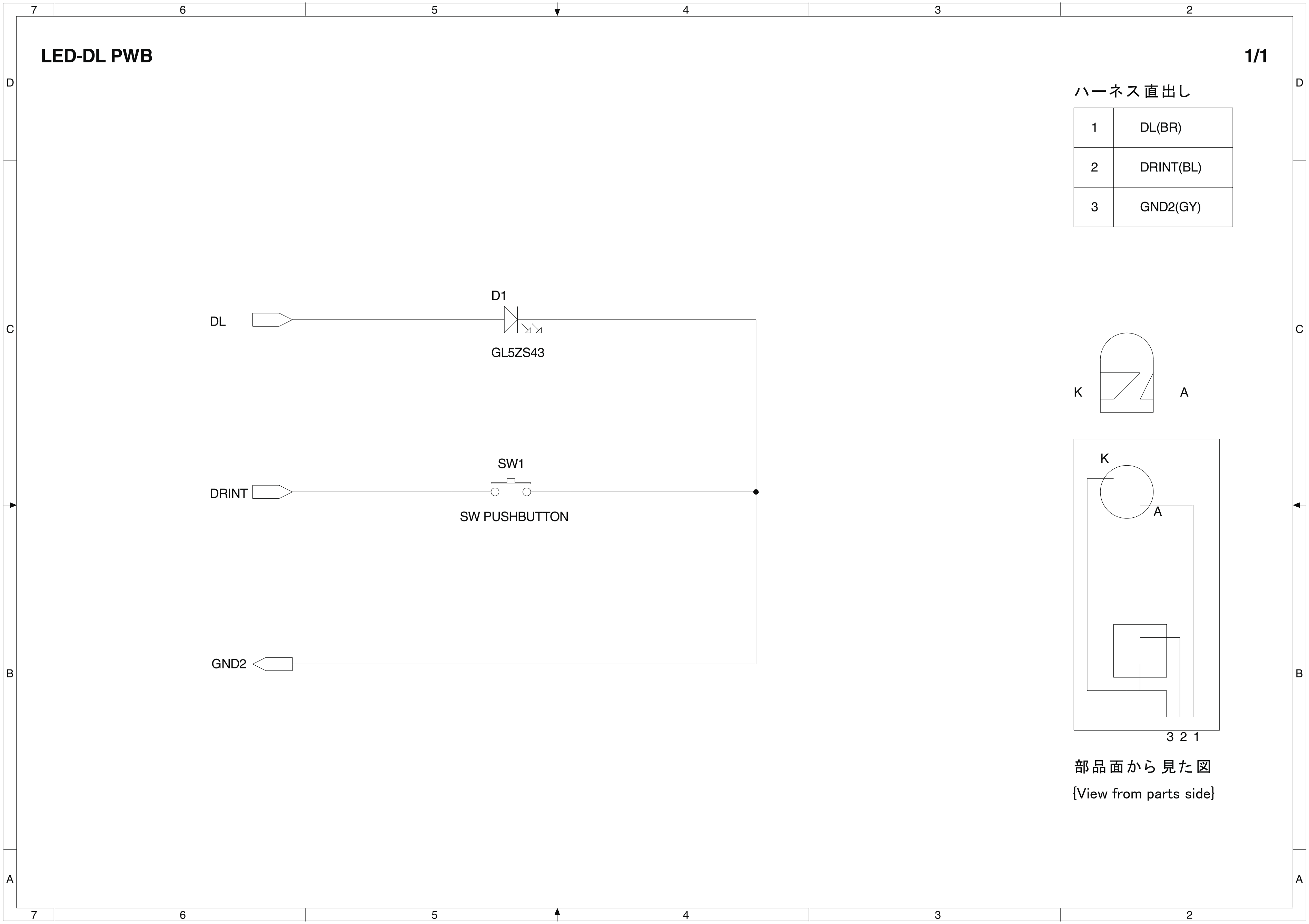
PROCESS CONTROL PWB / プロセスコントロールPWB

PARTS LAYOUT / 部品配置図

[PARTS SURFACE / 部品面]


SHARP
94V-0
PROCESS CONTROL PWB
PYKC F8 Ⓟ
PD1
CN1
R1
R2
R3
R4
R5
C1
C2
C3
C4
IC1
2904D
F1529DS51
DIP
1
2
3
4
5
6
7
8

G. LED-DL PWB


LED-DL PWB
1/1
DL
D1
GL5ZS43
DRINT
SW1
SW PUSHBUTTON
GND2
K
A
K
A
3 2 1
7
6
5
4
3
2
D
C
B
A

ハーネス直出し

1	DL(BR)
2	DRINT(BL)
3	GND2(GY)

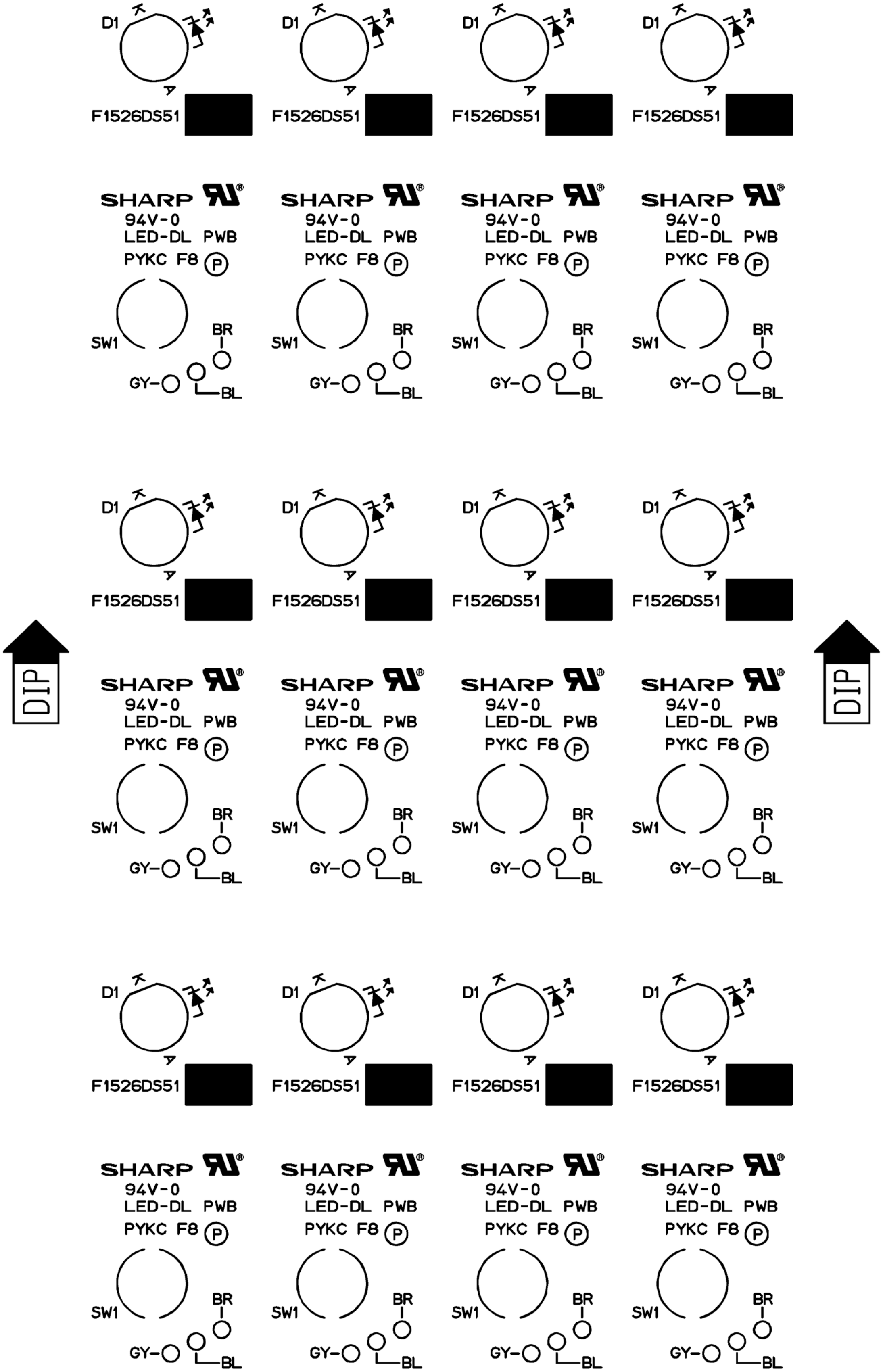
部品面から見た図

{View from parts side}

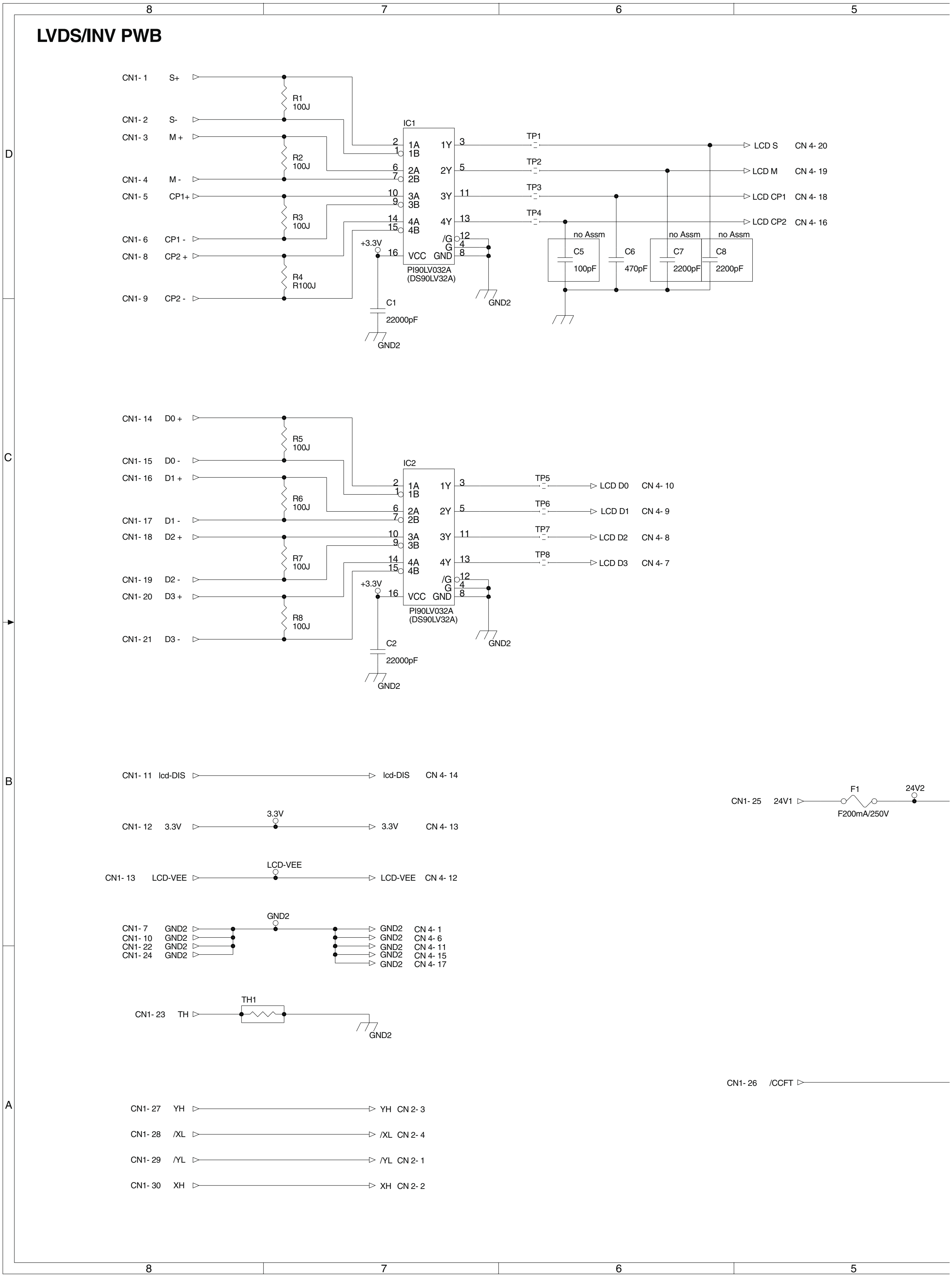
LED-DL PWB

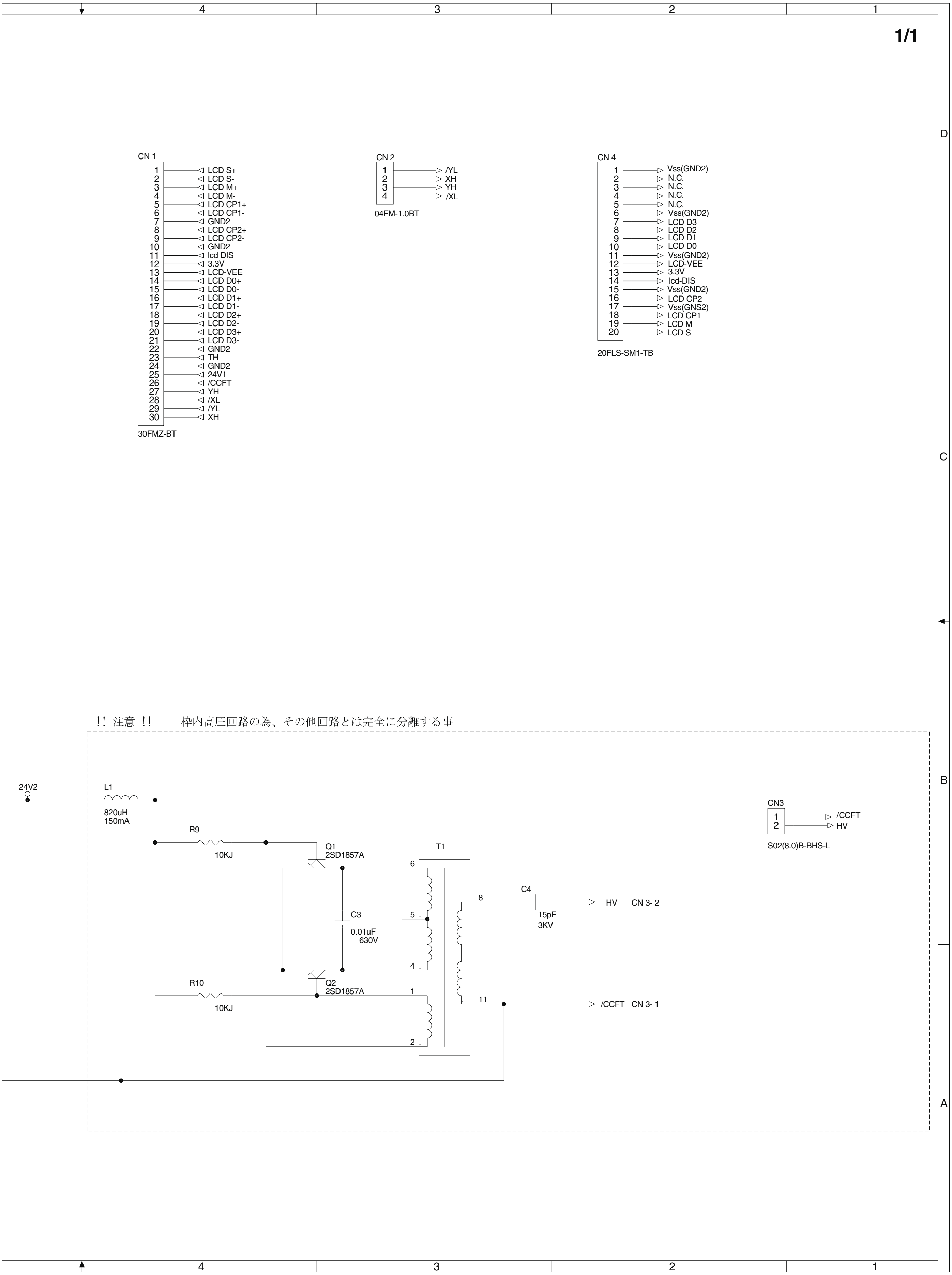
PARTS LAYOUT / 部品配置図

[PARTS SURFACE / 部品面]


D1
F1526DS51
SHARP
94V-0
LED-DL PWB
PYKC F8
P
SW1
BR
GY
BL
DIP

H. LVDS/INV PWB

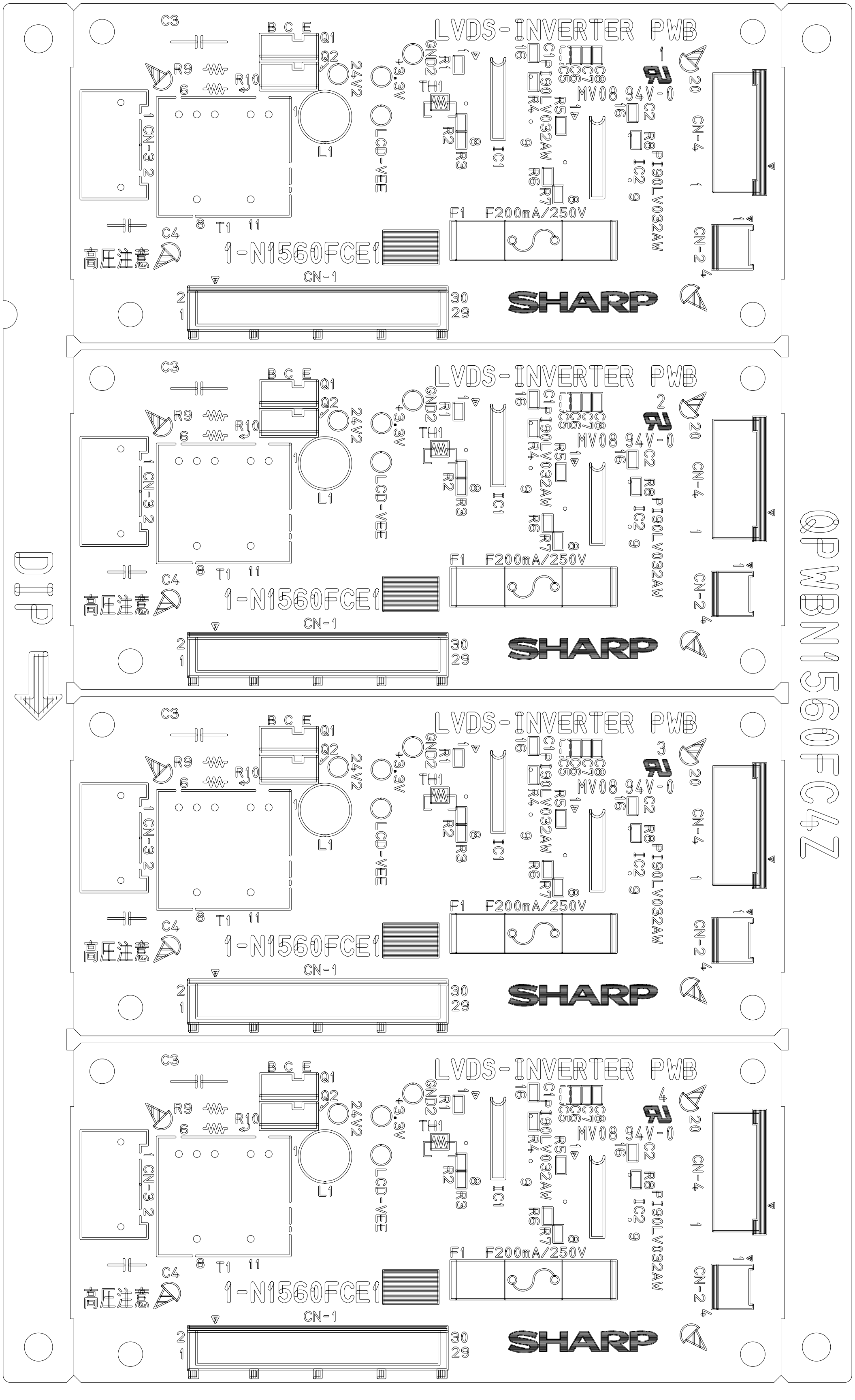

8
7
6
5
D
C
B
A
LVDS/INV PWB
CN1- 1 S+
CN1- 2 S-
CN1- 3 M +
CN1- 4 M -
CN1- 5 CP1+
CN1- 6 CP1 -
CN1- 8 CP2 +
CN1- 9 CP2 -
R1 100J
R2 100J
R3 100J
R4 R100J
IC1
1A 1B 2A 2B 3A 3B 4A 4B
1Y 2Y 3Y 4Y /G G VCC GND
+3.3V
PI90LV032A (DS90LV32A)
C1 22000pF
GND2
TP1
TP2
TP3
TP4
LCD S CN 4- 20
LCD M CN 4- 19
LCD CP1 CN 4- 18
LCD CP2 CN 4- 16
no Assm
C5 100pF
C6 470pF
C7 2200pF
C8 2200pF
CN1- 14 D0 +
CN1- 15 D0 -
CN1- 16 D1 +
CN1- 17 D1 -
CN1- 18 D2 +
CN1- 19 D2 -
CN1- 20 D3 +
CN1- 21 D3 -
R5 100J
R6 100J
R7 100J
R8 100J
IC2
PI90LV032A (DS90LV32A)
C2 22000pF
TP5
TP6
TP7
TP8
LCD D0 CN 4- 10
LCD D1 CN 4- 9
LCD D2 CN 4- 8
LCD D3 CN 4- 7
CN1- 11 lcd-DIS
lcd-DIS CN 4- 14
CN1- 12 3.3V
3.3V
3.3V CN 4- 13
CN1- 13 LCD-VEE
LCD-VEE
LCD-VEE CN 4- 12
CN1- 7 GND2
CN1- 10 GND2
CN1- 22 GND2
CN1- 24 GND2
GND2
GND2 CN 4- 1
GND2 CN 4- 6
GND2 CN 4- 11
GND2 CN 4- 15
GND2 CN 4- 17
CN1- 23 TH
TH1
CN1- 25 24V1
F1
F200mA/250V
24V2
CN1- 26 /CCFT
CN1- 27 YH
YH CN 2- 3
CN1- 28 /XL
/XL CN 2- 4
CN1- 29 /YL
/YL CN 2- 1
CN1- 30 XH
XH CN 2- 2


1/1
4
3
2
1
D
C
B
A
CN 1
1 LCD S+
2 LCD S-
3 LCD M+
4 LCD M-
5 LCD CP1+
6 LCD CP1-
7 GND2
8 LCD CP2+
9 LCD CP2-
10 GND2
11 lcd DIS
12 3.3V
13 LCD-VEE
14 LCD D0+
15 LCD D0-
16 LCD D1+
17 LCD D1-
18 LCD D2+
19 LCD D2-
20 LCD D3+
21 LCD D3-
22 GND2
23 TH
24 GND2
25 24V1
26 /CCFT
27 YH
28 /XL
29 /YL
30 XH
30FMZ-BT
CN 2
1 /YL
2 XH
3 YH
4 /XL
04FM-1.0BT
CN 4
1 Vss(GND2)
2 N.C.
3 N.C.
4 N.C.
5 N.C.
6 Vss(GND2)
7 LCD D3
8 LCD D2
9 LCD D1
10 LCD D0
11 Vss(GND2)
12 LCD-VEE
13 3.3V
14 lcd-DIS
15 Vss(GND2)
16 LCD CP2
17 Vss(GNS2)
18 LCD CP1
19 LCD M
20 LCD S
20FLS-SM1-TB
!! 注意 !!　枠内高圧回路の為、その他回路とは完全に分離する事
24V2
L1
820uH
150mA
R9
10KJ
Q1
2SD1857A
T1
6
5
4
1
2
8
11
C3
0.01uF
630V
C4
15pF
3KV
HV CN 3- 2
/CCFT CN 3- 1
R10
10KJ
Q2
2SD1857A
CN3
1 /CCFT
2 HV
S02(8.0)B-BHS-L

LVDS/INV PWB

PARTS LAYOUT / 部品配置図

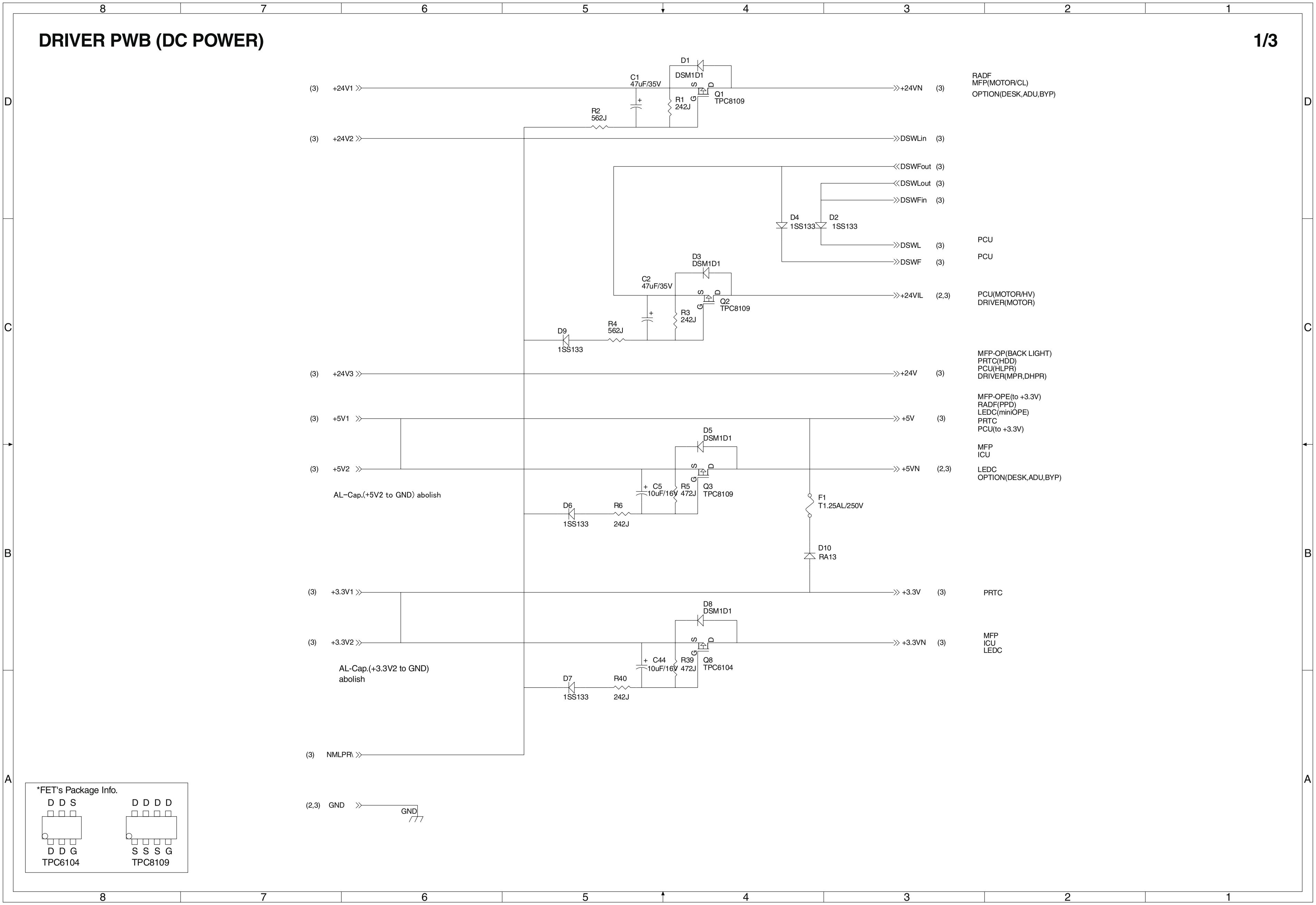
[PARTS SURFACE / 部品面]


LVDS-INVERTER PWB
C3
B C E
Q1
Q2
R9
R10
24V2
+3.3V
GND2
R1
TH1
R2
R3
L1
LCD-VEE
IC1
C1
C5
C6
C7
C8
R4
R5
R6
R7
PI90LV032AW
MV08 94V-0
C2
R8
IC2
CN-4
CN-3
CN-2
CN-1
T1
C4
F1
F200mA/250V
高圧注意
1-N1560FCE1
SHARP
DIP
QPWBN1560FC4Z

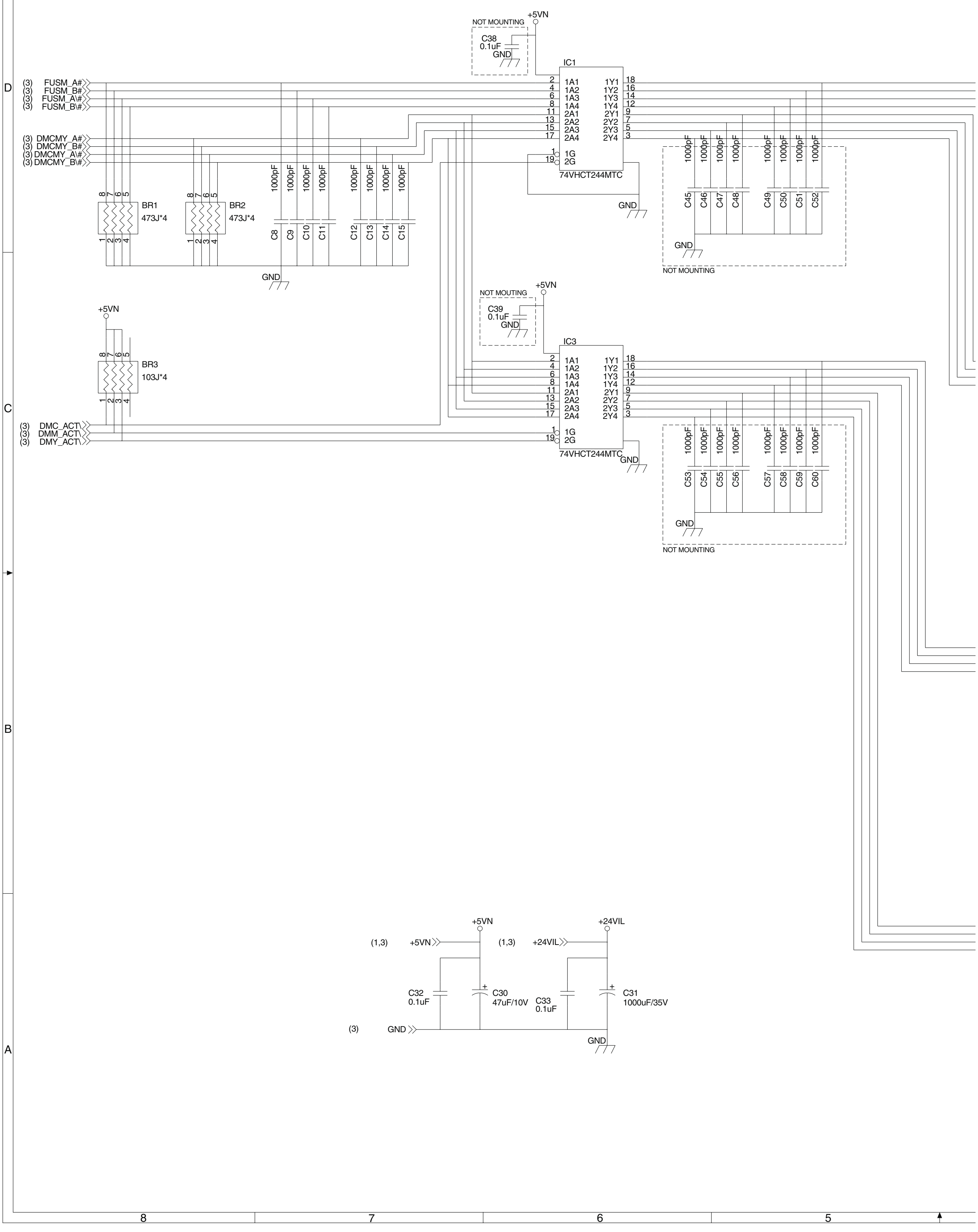
I. DRIVER PWB

DRIVER PWB (DC POWER)

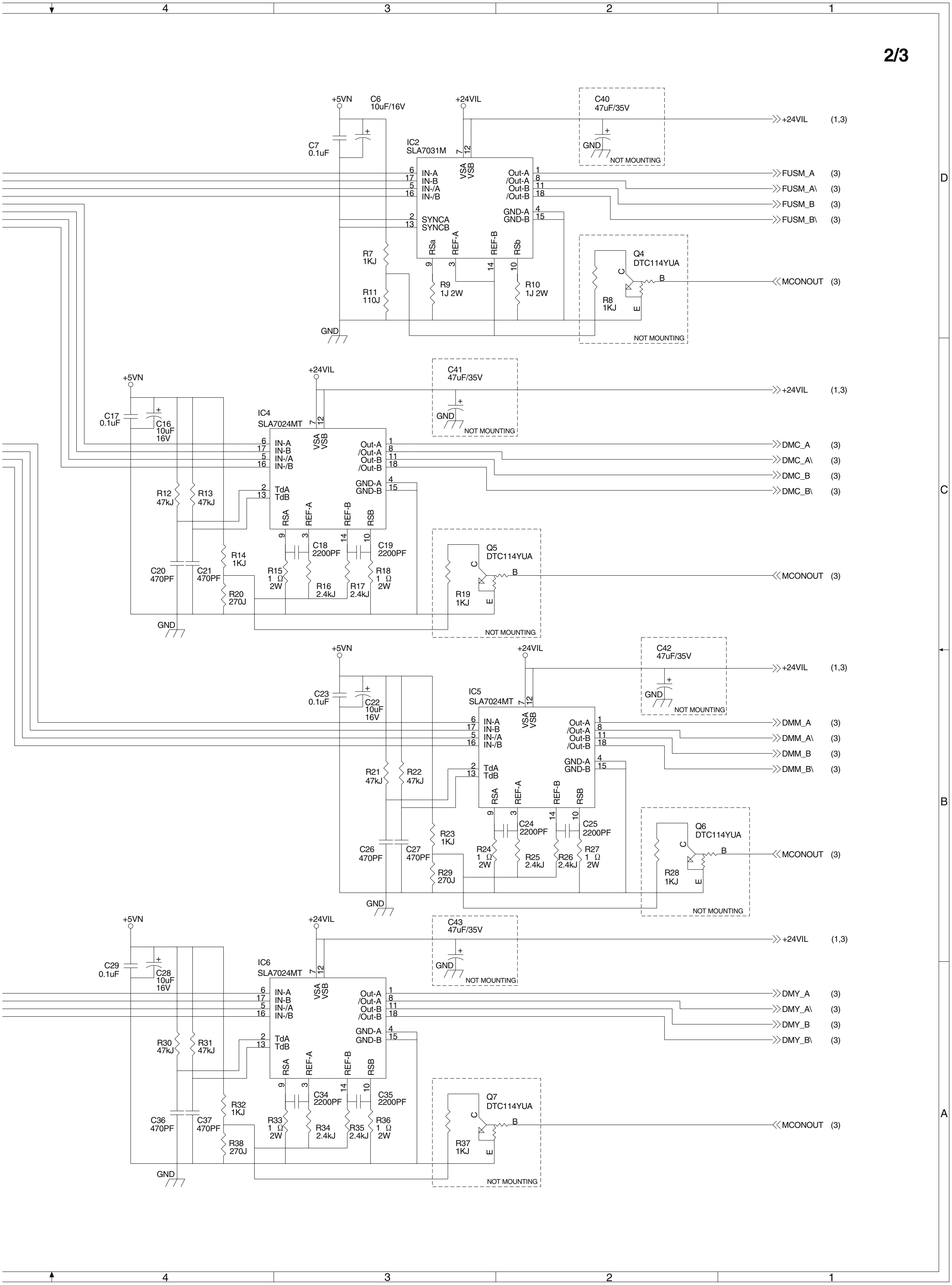
1/3

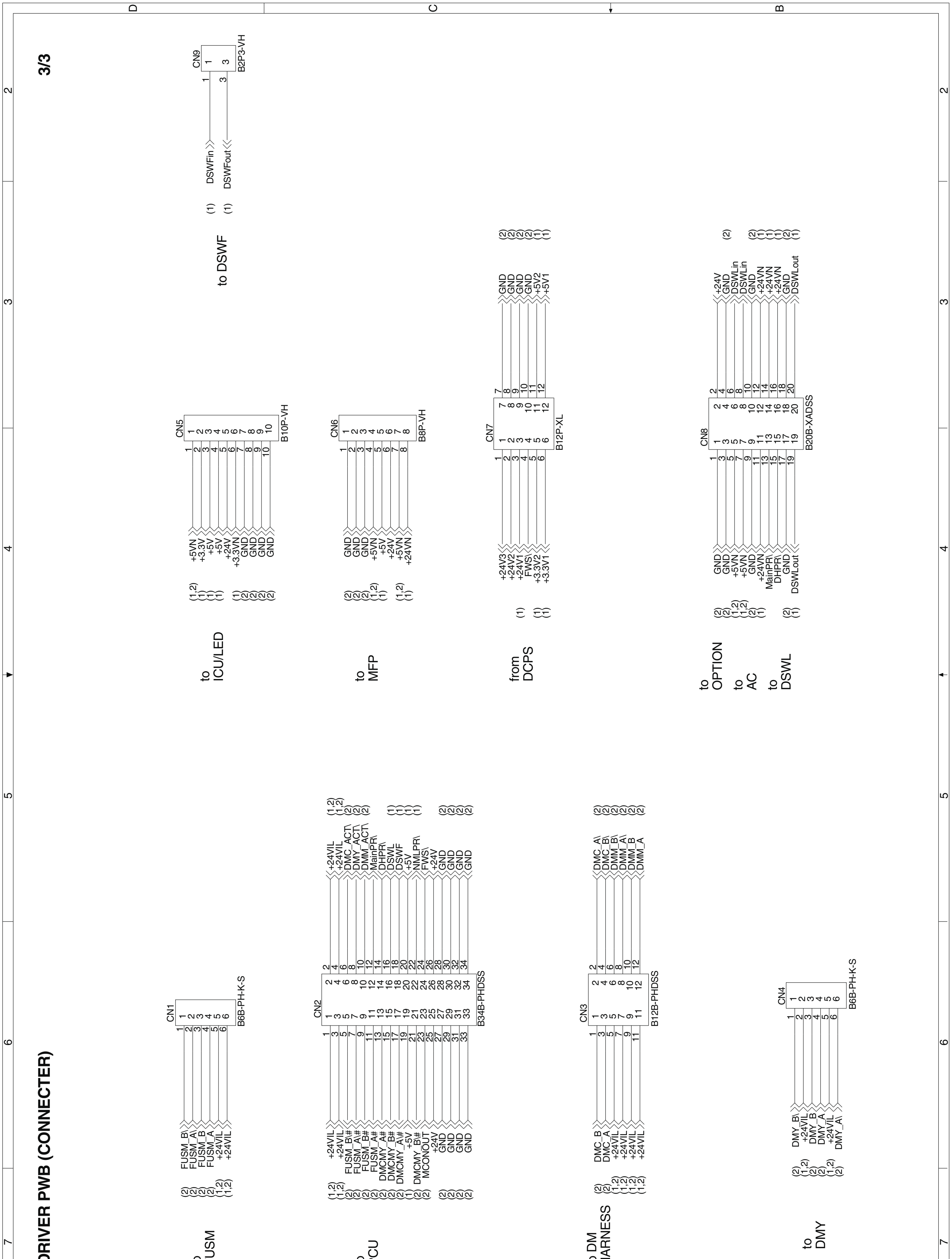

8
7
6
5
4
3
2
1
D
C
B
A
(3) +24V1
(3) +24V2
(3) +24V3
(3) +5V1
(3) +5V2
AL−Cap.(+5V2 to GND) abolish
(3) +3.3V1
(3) +3.3V2
AL-Cap.(+3.3V2 to GND) abolish
(3) NMLPR\
(2,3) GND
GND
D1 DSM1D1
C1 47uF/35V
R1 242J
Q1 TPC8109
R2 562J
S G D
D4 1SS133
D2 1SS133
D3 DSM1D1
C2 47uF/35V
R3 242J
Q2 TPC8109
R4 562J
D9 1SS133
D5 DSM1D1
C5 10uF/16V
R5 472J
Q3 TPC8109
D6 1SS133
R6 242J
F1 T1.25AL/250V
D10 RA13
D8 DSM1D1
C44 10uF/16V
R39 472J
Q8 TPC6104
D7 1SS133
R40 242J
+24VN (3) RADF MFP(MOTOR/CL) OPTION(DESK,ADU,BYP)
DSWLin (3)
DSWFout (3)
DSWLout (3)
DSWFin (3)
DSWL (3) PCU
DSWF (3) PCU
+24VIL (2,3) PCU(MOTOR/HV) DRIVER(MOTOR)
+24V (3) MFP-OP(BACK LIGHT) PRTC(HDD) PCU(HLPR) DRIVER(MPR,DHPR)
+5V (3) MFP-OPE(to +3.3V) RADF(PPD) LEDC(miniOPE) PRTC PCU(to +3.3V)
+5VN (2,3) MFP ICU LEDC OPTION(DESK,ADU,BYP)
+3.3V (3) PRTC
+3.3VN (3) MFP ICU LEDC
*FET's Package Info.
D D S
D D G
TPC6104
D D D D
S S S G
TPC8109

DRIVER PWB (MOTOR_DRIVE)



NOT MOUNTING
+5VN
C38
0.1uF
GND
IC1
(3) FUSM_A#
(3) FUSM_B#
(3) FUSM_A\#
(3) FUSM_B\#
(3) DMCMY_A#
(3) DMCMY_B#
(3) DMCMY_A\#
(3) DMCMY_B\#
2 1A1 1Y1 18
4 1A2 1Y2 16
6 1A3 1Y3 14
8 1A4 1Y4 12
11 2A1 2Y1 9
13 2A2 2Y2 7
15 2A3 2Y3 5
17 2A4 2Y4 3
1 1G
19 2G
74VHCT244MTC
GND
BR1
473J*4
BR2
473J*4
1000pF
C8 C9 C10 C11 C12 C13 C14 C15
C45 C46 C47 C48 C49 C50 C51 C52
GND
NOT MOUNTING
NOT MOUTING
+5VN
C39
0.1uF
GND
IC3
BR3
103J*4
(3) DMC_ACT\
(3) DMM_ACT\
(3) DMY_ACT\
74VHCT244MTC
GND
C53 C54 C55 C56 C57 C58 C59 C60
GND
NOT MOUNTING
+5VN
+24VIL
(1,3) +5VN
(1,3) +24VIL
C32
0.1uF
C30
47uF/10V
C33
0.1uF
C31
1000uF/35V
(3) GND
GND
8 7 6 5
D C B A


2/3
4
3
2
1
D
C
B
A
+5VN
C6
10uF/16V
C7
0.1uF
+24VIL
IC2
SLA7031M
IN-A
IN-B
IN-/A
IN-/B
SYNCA
SYNCB
VSA
VSB
Out-A
/Out-A
Out-B
/Out-B
GND-A
GND-B
RSa
REF-A
REF-B
RSb
R7
1KJ
R11
110J
R9
1J 2W
R10
1J 2W
GND
C40
47uF/35V
NOT MOUNTING
+24VIL (1,3)
FUSM_A (3)
FUSM_A\ (3)
FUSM_B (3)
FUSM_B\ (3)
Q4
DTC114YUA
R8
1KJ
MCONOUT (3)
IC4
SLA7024MT
C17
0.1uF
C16
10uF
16V
TdA
TdB
RSA
RSB
R12
47kJ
R13
47kJ
R14
1KJ
R15
1 Ω
2W
R16
2.4kJ
R17
2.4kJ
R18
1 Ω
2W
C18
2200PF
C19
2200PF
C20
470PF
C21
470PF
R20
270J
C41
47uF/35V
DMC_A (3)
DMC_A\ (3)
DMC_B (3)
DMC_B\ (3)
Q5
DTC114YUA
R19
1KJ
IC5
SLA7024MT
C23
0.1uF
C22
10uF
16V
R21
47kJ
R22
47kJ
R23
1KJ
R24
1 Ω
2W
R25
2.4kJ
R26
2.4kJ
R27
1 Ω
2W
C24
2200PF
C25
2200PF
C26
470PF
C27
470PF
R29
270J
C42
47uF/35V
DMM_A (3)
DMM_A\ (3)
DMM_B (3)
DMM_B\ (3)
Q6
DTC114YUA
R28
1KJ
IC6
SLA7024MT
C29
0.1uF
C28
10uF
16V
R30
47kJ
R31
47kJ
R32
1KJ
R33
1 Ω
2W
R34
2.4kJ
R35
2.4kJ
R36
1 Ω
2W
C34
2200PF
C35
2200PF
C36
470PF
C37
470PF
R38
270J
C43
47uF/35V
DMY_A (3)
DMY_A\ (3)
DMY_B (3)
DMY_B\ (3)
Q7
DTC114YUA
R37
1KJ
C
B
E

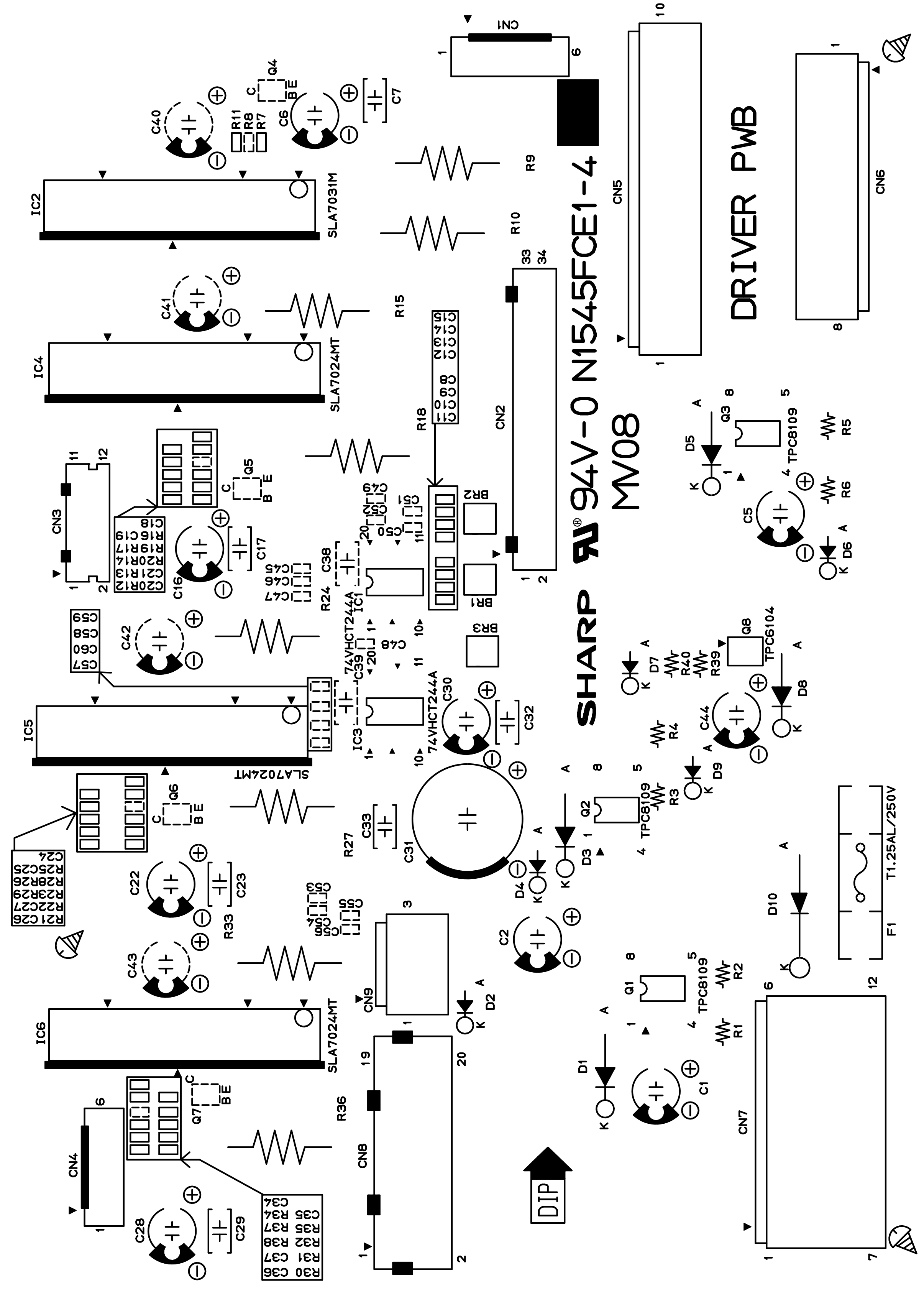


DRIVER PWB (CONNECTER)
3/3
to FUSM
CN1
B6B-PH-K-S
FUSM_B\
FUSM_A\
FUSM_B
FUSM_A
+24VIL
+24VIL
to PCU
CN2
B34B-PHDSS
+24VIL
FUSM_B\#
FUSM_A\#
FUSM_B#
FUSM_A#
DMCMY_A#
DMCMY_B#
DMCMY_A\#
+5V
DMCMY_B\#
MCONOUT
+24V
GND
DMC_ACT\
DMY_ACT\
DMM_ACT\
MainPR\
DHPR\
DSWL
DSWF
NMLPR\
FWS\
to DM HARNESS
CN3
B12B-PHDSS
DMC_B
DMC_A
DMC_A\
DMC_B\
DMM_B\
DMM_A\
DMM_B
DMM_A
to DMY
CN4
B6B-PH-K-S
DMY_B\
DMY_B
DMY_A
DMY_A\
to ICU/LED
CN5
B10P-VH
+5VN
+3.3V
+3.3VN
to MFP
CN6
B8P-VH
+24VN
from DCPS
CN7
B12P-XL
+24V3
+24V2
+24V1
+3.3V2
+3.3V1
+5V2
+5V1
to OPTION
to AC
to DSWL
CN8
B20B-XADSS
DSWLin
DSWLout
to DSWF
CN9
B2P3-VH
DSWFin
DSWFout

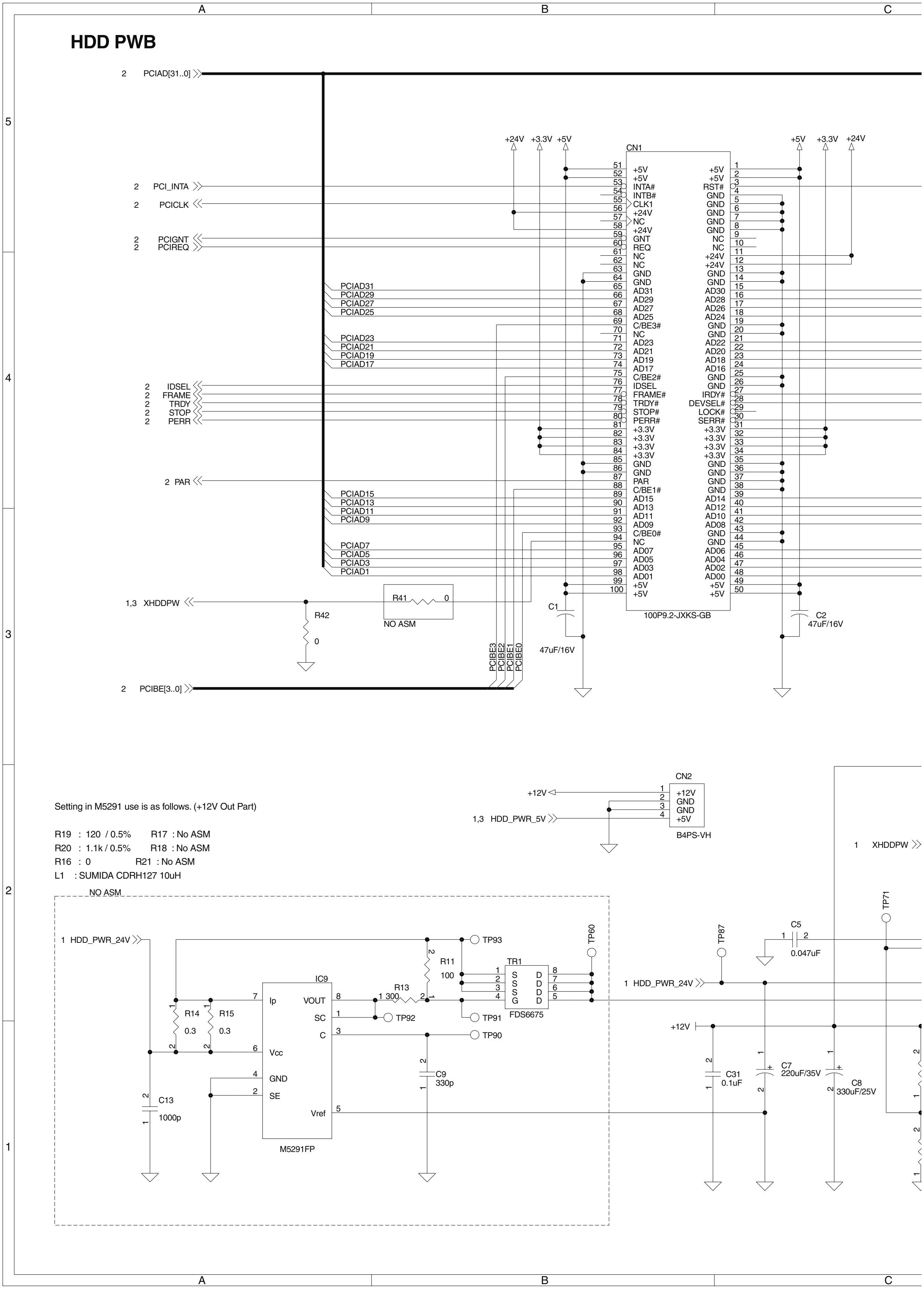
DRIVER PWB / ドライバーPWB

PARTS LAYOUT / 部品配置図

[PARTS SURFACE / 部品面]

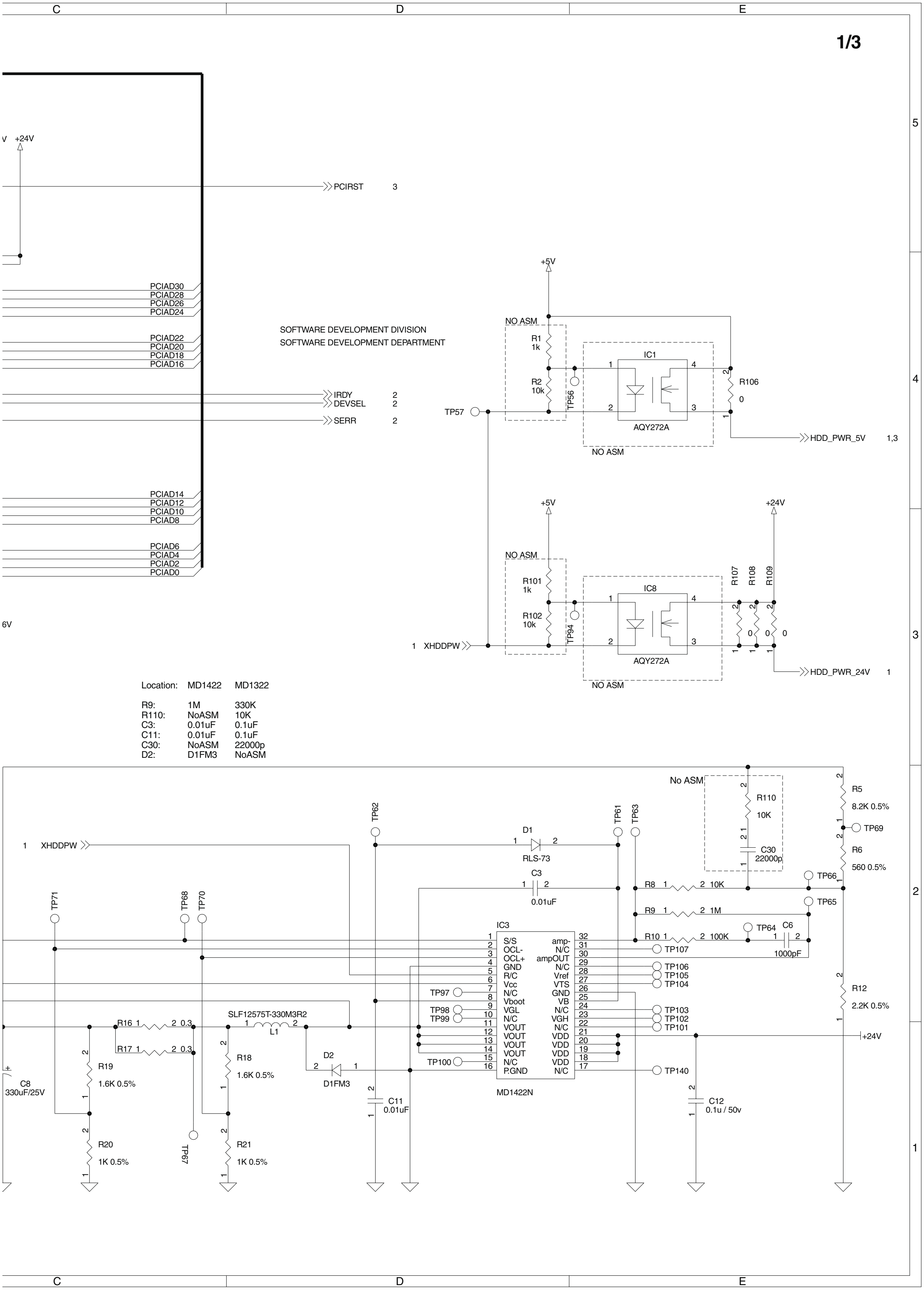

DRIVER PWB
94V-0 N1545FCE1-4
MV08
SHARP
DIP
CN1
CN2
CN3
CN4
CN5
CN6
CN7
CN8
CN9
IC1 74VHCT244A
IC2 SLA7031M
IC3 74VHCT244A
IC4 SLA7024MT
IC5 SLA7024MT
IC6 SLA7024MT
Q1 TPC8109
Q2 TPC8109
Q3 TPC8109
Q4
Q5
Q6
Q7
Q8 TPC6104
F1 T1.25AL/250V
BR1
BR2
BR3
C1
C2
C5
C6
C7
C16
C17
C22
C23
C28
C29
C30
C31
C32
C33
C38
C39
C40
C41
C42
C43
C44
C48
D1
D2
D3
D4
D5
D6
D7
D8
D9
D10
R1
R2
R3
R4
R5
R6
R9
R10
R15
R18
R24
R27
R33
R36
R39
R40

J. HDD PWB


HDD PWB
A
B
C
1
2
3
4
5
PCIAD[31..0]
PCI_INTA
PCICLK
PCIGNT
PCIREQ
IDSEL
FRAME
TRDY
STOP
PERR
PAR
XHDDPW
PCIBE[3..0]
PCIBE3
PCIBE2
PCIBE1
PCIBE0
CN1
100P9.2-JXKS-GB
+24V
+3.3V
+5V
R41
0
NO ASM
R42
C1
47uF/16V
C2
47uF/16V
+5V
INTA#
INTB#
CLK1
+24V
NC
GNT
REQ
GND
AD31
AD29
AD27
AD25
C/BE3#
AD23
AD21
AD19
AD17
C/BE2#
IDSEL
FRAME#
TRDY#
STOP#
PERR#
+3.3V
PAR
C/BE1#
AD15
AD13
AD11
AD09
C/BE0#
AD07
AD05
AD03
AD01
RST#
AD30
AD28
AD26
AD24
AD22
AD20
AD18
AD16
IRDY#
DEVSEL#
LOCK#
SERR#
AD14
AD12
AD10
AD08
AD06
AD04
AD02
AD00
PCIAD31
PCIAD29
PCIAD27
PCIAD25
PCIAD23
PCIAD21
PCIAD19
PCIAD17
PCIAD15
PCIAD13
PCIAD11
PCIAD9
PCIAD7
PCIAD5
PCIAD3
PCIAD1
CN2
+12V
GND
+5V
B4PS-VH
HDD_PWR_5V
XHDDPW
NO ASM
HDD_PWR_24V
IC9
M5291FP
Ip
VOUT
SC
C
Vcc
GND
SE
Vref
R14
0.3
R15
0.3
R13
300
R11
100
TR1
FDS6675
S
G
D
TP93
TP92
TP91
TP90
TP60
TP87
TP71
C9
330p
C13
1000p
C5
0.047uF
C31
0.1uF
C7
220uF/35V
C8
330uF/25V
+12V

Setting in M5291 use is as follows. (+12V Out Part)

R19 : 120 / 0.5% R17 : No ASM
R20 : 1.1k / 0.5% R18 : No ASM
R16 : 0 R21 : No ASM
L1 : SUMIDA CDRH127 10uH

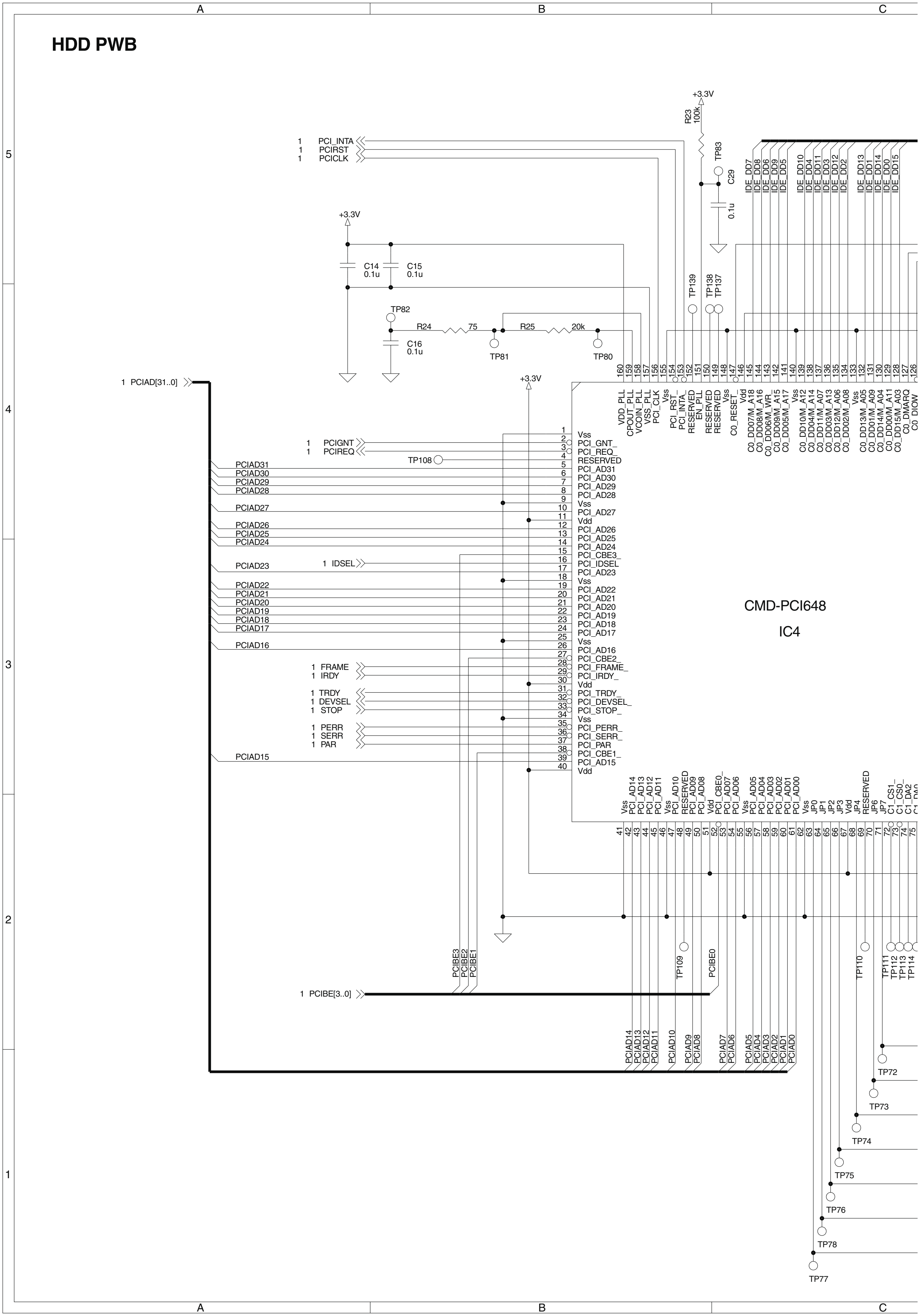


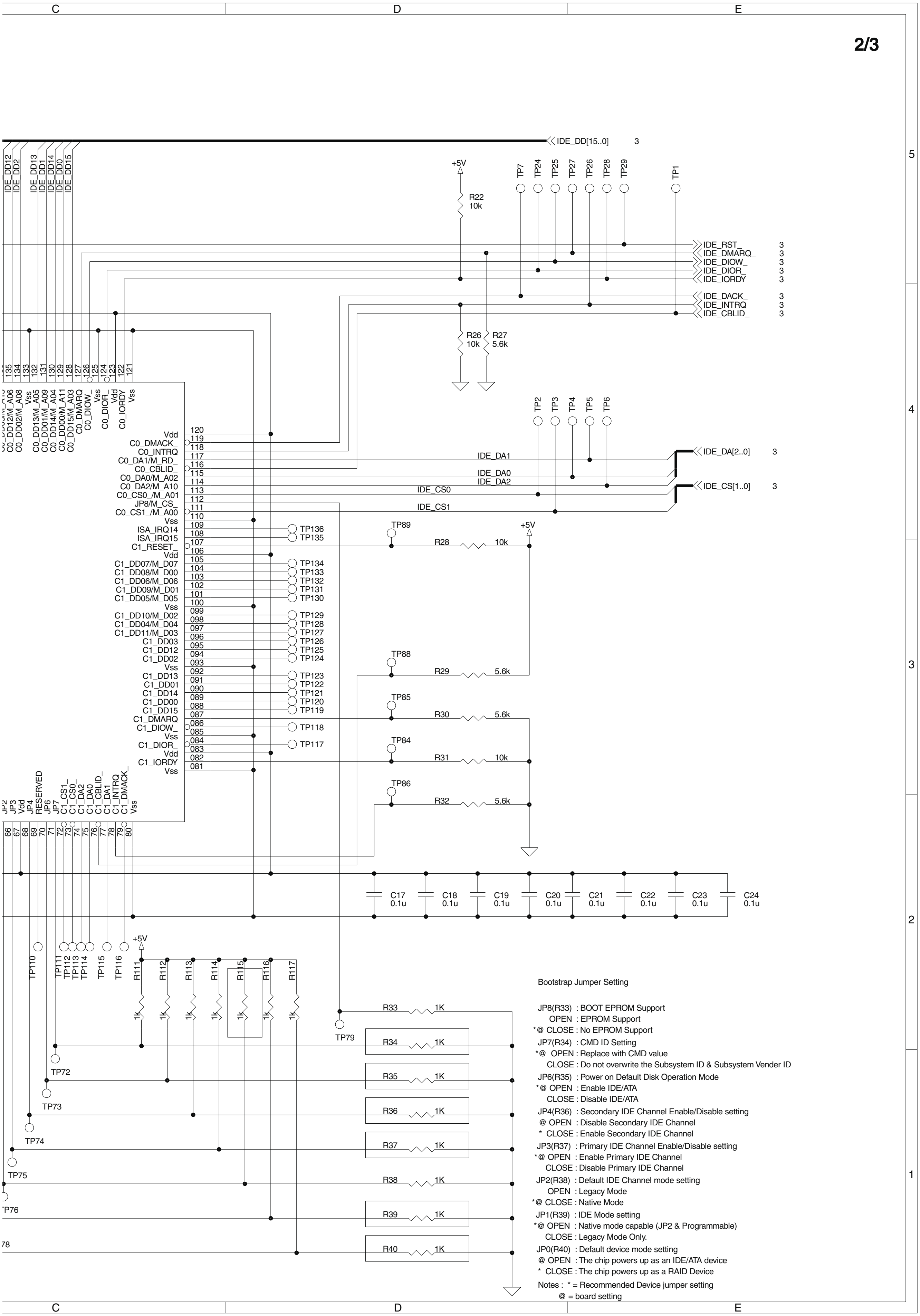
Location:	MD1422	MD1322
R9:	1M	330K
R110:	NoASM	10K
C3:	0.01uF	0.1uF
C11:	0.01uF	0.1uF
C30:	NoASM	22000p
D2:	D1FM3	NoASM

SOFTWARE DEVELOPMENT DIVISION
SOFTWARE DEVELOPMENT DEPARTMENT

C
D
E
1/3
5
4
3
2
1
+24V
6V
PCIRST 3
PCIAD30
PCIAD28
PCIAD26
PCIAD24
PCIAD22
PCIAD20
PCIAD18
PCIAD16
IRDY 2
DEVSEL 2
SERR 2
PCIAD14
PCIAD12
PCIAD10
PCIAD8
PCIAD6
PCIAD4
PCIAD2
PCIAD0
+5V
NO ASM
R1 1k
R2 10k
TP56
TP57
IC1
AQY272A
R106 0
HDD_PWR_5V 1,3
+5V
+24V
R101 1k
R102 10k
TP94
IC8
AQY272A
R107
R108
R109
1 XHDDPW
HDD_PWR_24V 1
No ASM
R110 10K
C30 22000p
R5 8.2K 0.5%
TP69
R6 560 0.5%
TP66
TP65
TP62
TP61
TP63
D1 RLS-73
C3 0.01uF
R8 10K
R9 1M
R10 100K
TP64
C6 1000pF
TP71
TP68
TP70
IC3
S/S
OCL-
OCL+
GND
R/C
Vcc
N/C
Vboot
VGL
N/C
VOUT
VOUT
VOUT
VOUT
N/C
P.GND
amp-
N/C
ampOUT
N/C
Vref
VTS
GND
VB
N/C
VGH
N/C
VDD
VDD
VDD
VDD
N/C
MD1422N
TP107
TP106
TP105
TP104
TP97
TP98
TP99
TP103
TP102
TP101
TP100
TP140
R12 2.2K 0.5%
+24V
R16 0.3
R17 0.3
SLF12575T-330M3R2
L1
D2 D1FM3
C8 330uF/25V
R19 1.6K 0.5%
R18 1.6K 0.5%
C11 0.01uF
C12 0.1u / 50v
R20 1K 0.5%
R21 1K 0.5%
TP67

HDD PWB


A
B
C
5
4
3
2
1
+3.3V
R23
100k
TP83
C29
0.1u
1 PCI_INTA
1 PCIRST
1 PCICLK
IDE_DD7
IDE_DD8
IDE_DD6
IDE_DD9
IDE_DD5
IDE_DD10
IDE_DD4
IDE_DD11
IDE_DD3
IDE_DD12
IDE_DD2
IDE_DD13
IDE_DD1
IDE_DD14
IDE_DD0
IDE_DD15
C14
0.1u
C15
0.1u
TP139
TP138
TP137
TP82
R24
75
R25
20k
C16
0.1u
TP81
TP80
1 PCIAD[31..0]
CMD-PCI648
IC4
VDD_PLL
CPOUT_PLL
VCOIN_PLL
VSS_PLL
PCI_CLK
Vss
PCI_RST_
PCI_INTA_
RESERVED
EN_PLL
RESERVED
RESERVED
Vss
C0_RESET_
Vdd
C0_DD07/M_A18
C0_DD08/M_A16
C0_DD06/M_WR_
C0_DD09/M_A15
C0_DD05/M_A17
Vss
C0_DD10/M_A12
C0_DD04/M_A14
C0_DD11/M_A07
C0_DD03/M_A13
C0_DD12/M_A06
C0_DD02/M_A08
Vss
C0_DD13/M_A05
C0_DD01/M_A09
C0_DD14/M_A04
C0_DD00/M_A11
C0_DD15/M_A03
C0_DMARQ
C0_DIOW
1 PCIGNT
1 PCIREQ
TP108
PCIAD31
PCIAD30
PCIAD29
PCIAD28
PCIAD27
PCIAD26
PCIAD25
PCIAD24
1 IDSEL
PCIAD23
PCIAD22
PCIAD21
PCIAD20
PCIAD19
PCIAD18
PCIAD17
PCIAD16
1 FRAME
1 IRDY
1 TRDY
1 DEVSEL
1 STOP
1 PERR
1 SERR
1 PAR
PCIAD15
1 Vss
2 PCI_GNT_
3 PCI_REQ_
4 RESERVED
5 PCI_AD31
6 PCI_AD30
7 PCI_AD29
8 PCI_AD28
9 Vss
10 PCI_AD27
11 Vdd
12 PCI_AD26
13 PCI_AD25
14 PCI_AD24
15 PCI_CBE3_
16 PCI_IDSEL
17 PCI_AD23
18 Vss
19 PCI_AD22
20 PCI_AD21
21 PCI_AD20
22 PCI_AD19
23 PCI_AD18
24 PCI_AD17
25 Vss
26 PCI_AD16
27 PCI_CBE2_
28 PCI_FRAME_
29 PCI_IRDY_
30 Vdd
31 PCI_TRDY_
32 PCI_DEVSEL_
33 PCI_STOP_
34 Vss
35 PCI_PERR_
36 PCI_SERR_
37 PCI_PAR
38 PCI_CBE1_
39 PCI_AD15
40 Vdd
41 Vss
42 PCI_AD14
43 PCI_AD13
44 PCI_AD12
45 PCI_AD11
46 Vss
47 PCI_AD10
48 RESERVED
49 PCI_AD09
50 PCI_AD08
51 Vdd
52 PCI_CBE0_
53 PCI_AD07
54 PCI_AD06
55 Vss
56 PCI_AD05
57 PCI_AD04
58 PCI_AD03
59 PCI_AD02
60 PCI_AD01
61 PCI_AD00
62 Vss
63 JP0
64 JP1
65 JP2
66 JP3
67 Vdd
68 JP4
69 RESERVED
70 JP6
71 JP7
72 C1_CS1_
73 C1_CS0_
74 C1_DA2
75
PCIBE3
PCIBE2
PCIBE1
TP109
PCIBE0
TP110
TP111
TP112
TP113
TP114
1 PCIBE[3..0]
PCIAD14
PCIAD13
PCIAD12
PCIAD11
PCIAD10
PCIAD9
PCIAD8
PCIAD7
PCIAD6
PCIAD5
PCIAD4
PCIAD3
PCIAD2
PCIAD1
PCIAD0
TP72
TP73
TP74
TP75
TP76
TP78
TP77

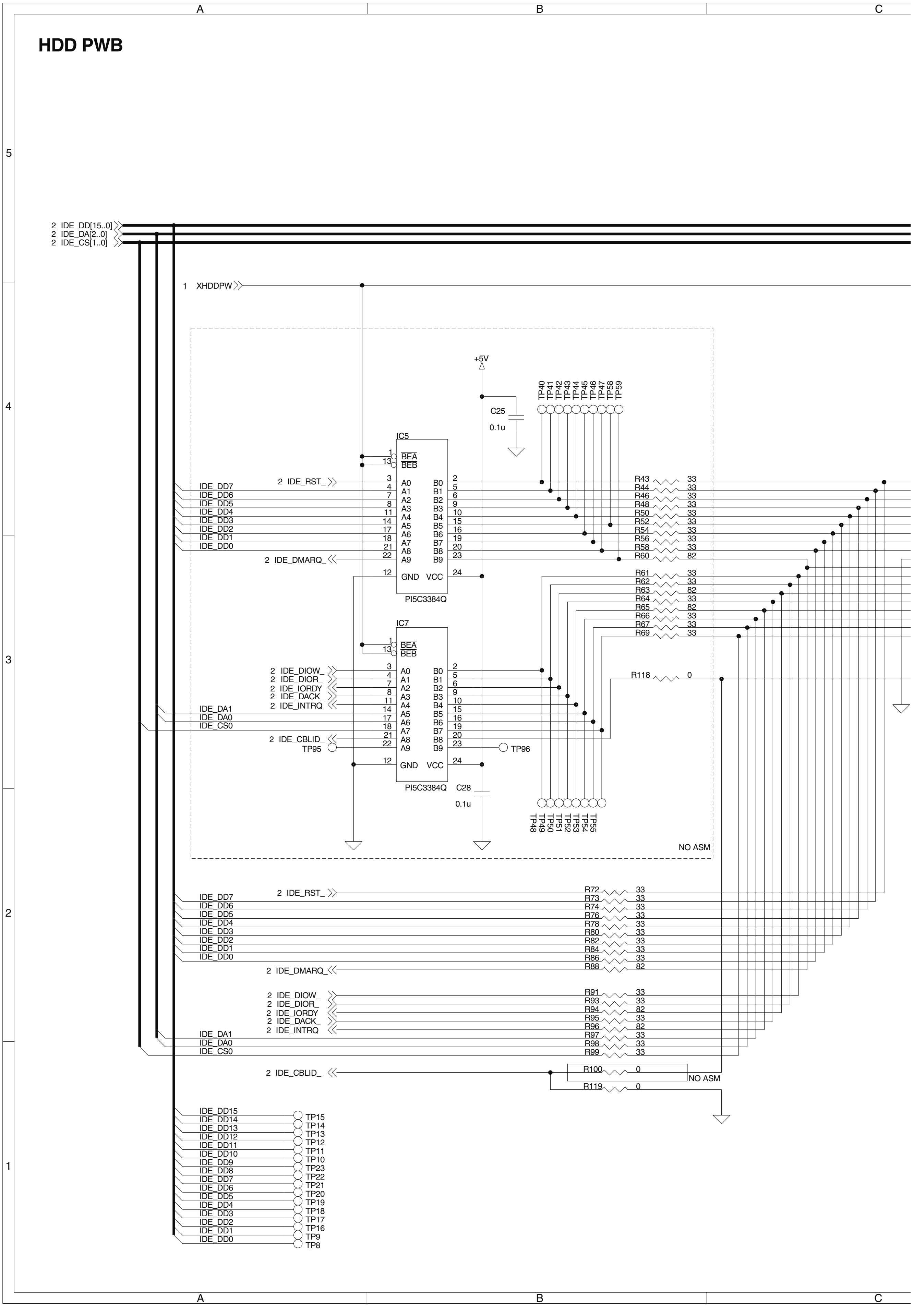

C
D
E
5
4
3
2
1
IDE_DD[15..0] 3
IDE_DD12
IDE_DD2
IDE_DD13
IDE_DD1
IDE_DD14
IDE_DD0
IDE_DD15
+5V
R22 10k
TP7
TP24
TP25
TP27
TP26
TP28
TP29
TP1
IDE_RST_ 3
IDE_DMARQ_ 3
IDE_DIOW_ 3
IDE_DIOR_ 3
IDE_IORDY 3
IDE_DACK_ 3
IDE_INTRQ 3
IDE_CBLID_ 3
R26 10k
R27 5.6k
TP2
TP3
TP4
TP5
TP6
IDE_DA1
IDE_DA0
IDE_DA2
IDE_CS0
IDE_CS1
IDE_DA[2..0] 3
IDE_CS[1..0] 3
C0_DD12/M_A06
C0_DD02/M_A08
Vss
C0_DD13/M_A05
C0_DD01/M_A09
C0_DD14/M_A04
C0_DD00/M_A11
C0_DD15/M_A03
C0_DMARQ
C0_DIOW_
Vss
C0_DIOR_
Vdd
C0_IORDY
Vss
Vdd 120
C0_DMACK_ 119
C0_INTRQ 118
C0_DA1/M_RD_ 117
C0_CBLID_ 116
C0_DA0/M_A02 115
C0_DA2/M_A10 114
C0_CS0_/M_A01 113
JP8/M_CS_ 112
C0_CS1_/M_A00 111
Vss 110
ISA_IRQ14 109
ISA_IRQ15 108
C1_RESET_ 107
Vdd 106
C1_DD07/M_D07 105
C1_DD08/M_D00 104
C1_DD06/M_D06 103
C1_DD09/M_D01 102
C1_DD05/M_D05 101
Vss 100
C1_DD10/M_D02 099
C1_DD04/M_D04 098
C1_DD11/M_D03 097
C1_DD03 096
C1_DD12 095
C1_DD02 094
Vss 093
C1_DD13 092
C1_DD01 091
C1_DD14 090
C1_DD00 089
C1_DD15 088
C1_DMARQ 087
C1_DIOW_ 086
Vss 085
C1_DIOR_ 084
Vdd 083
C1_IORDY 082
Vss 081
TP136
TP135
TP134
TP133
TP132
TP131
TP130
TP129
TP128
TP127
TP126
TP125
TP124
TP123
TP122
TP121
TP120
TP119
TP118
TP117
TP89
+5V
R28 10k
TP88
R29 5.6k
TP85
R30 5.6k
TP84
R31 10k
TP86
R32 5.6k
JP2
JP3
Vdd
JP4
RESERVED
JP6
JP7
C1_CS1_
C1_CS0_
C1_DA2
C1_DA0
C1_CBLID_
C1_DA1
C1_INTRQ
C1_DMACK_
Vss
C17 0.1u
C18 0.1u
C19 0.1u
C20 0.1u
C21 0.1u
C22 0.1u
C23 0.1u
C24 0.1u
TP110
TP111
TP112
TP113
TP114
TP115
TP116
+5V
R111 1k
R112 1k
R113 1k
R114 1k
R115 1k
R116 1k
R117 1k
R33 1K
TP79
R34 1K
R35 1K
R36 1K
R37 1K
R38 1K
R39 1K
R40 1K
TP72
TP73
TP74
TP75
TP76
78

Bootstrap Jumper Setting

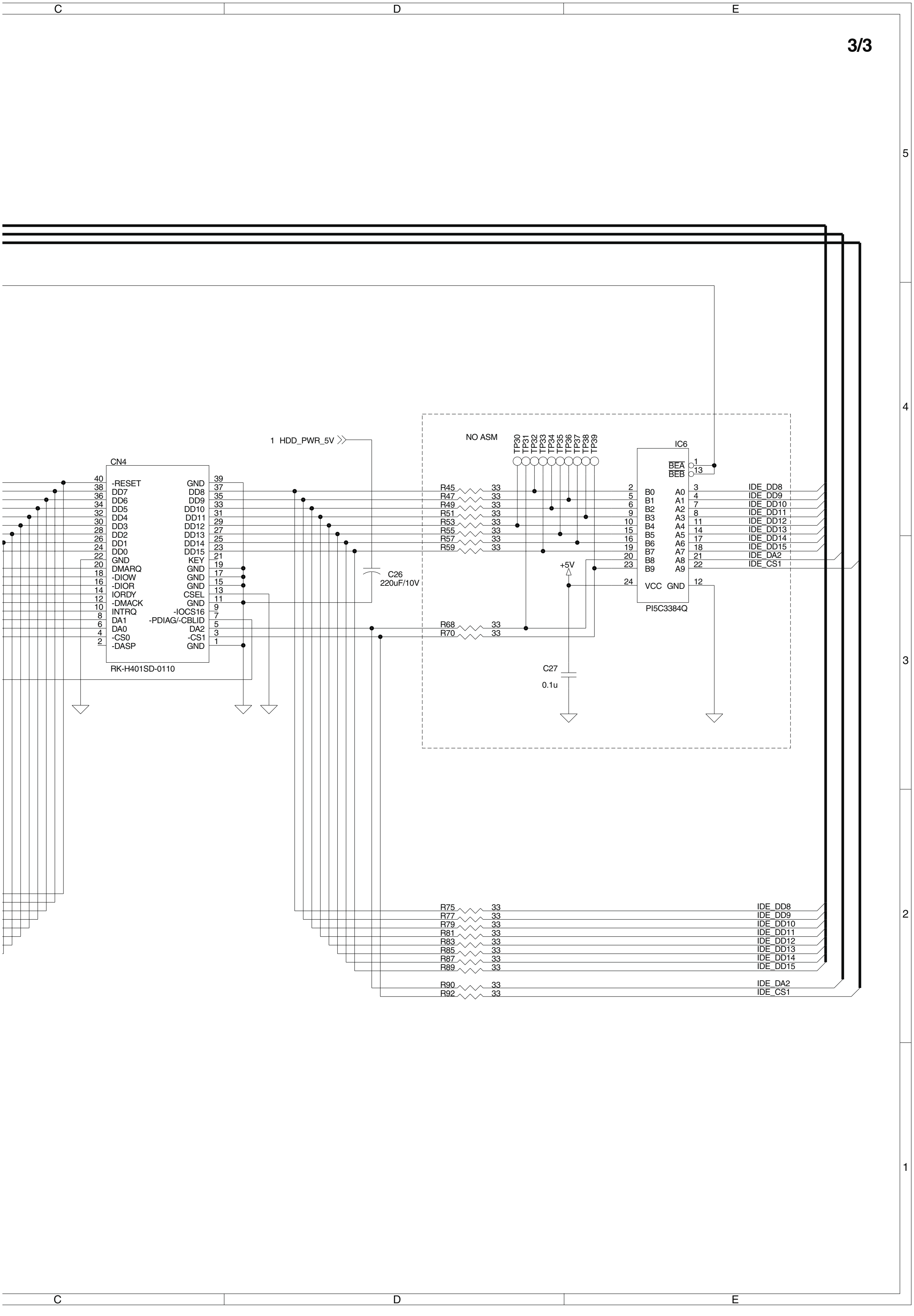
JP8(R33) : BOOT EPROM Support
OPEN : EPROM Support
*@ CLOSE : No EPROM Support
JP7(R34) : CMD ID Setting
*@ OPEN : Replace with CMD value
CLOSE : Do not overwrite the Subsystem ID & Subsystem Vender ID
JP6(R35) : Power on Default Disk Operation Mode
*@ OPEN : Enable IDE/ATA
CLOSE : Disable IDE/ATA
JP4(R36) : Secondary IDE Channel Enable/Disable setting
@ OPEN : Disable Secondary IDE Channel
* CLOSE : Enable Secondary IDE Channel
JP3(R37) : Primary IDE Channel Enable/Disable setting
*@ OPEN : Enable Primary IDE Channel
CLOSE : Disable Primary IDE Channel
JP2(R38) : Default IDE Channel mode setting
OPEN : Legacy Mode
*@ CLOSE : Native Mode
JP1(R39) : IDE Mode setting
*@ OPEN : Native mode capable (JP2 & Programmable)
CLOSE : Legacy Mode Only.
JP0(R40) : Default device mode setting
@ OPEN : The chip powers up as an IDE/ATA device
* CLOSE : The chip powers up as a RAID Device

Notes : * = Recommended Device jumper setting
@ = board setting

HDD PWB



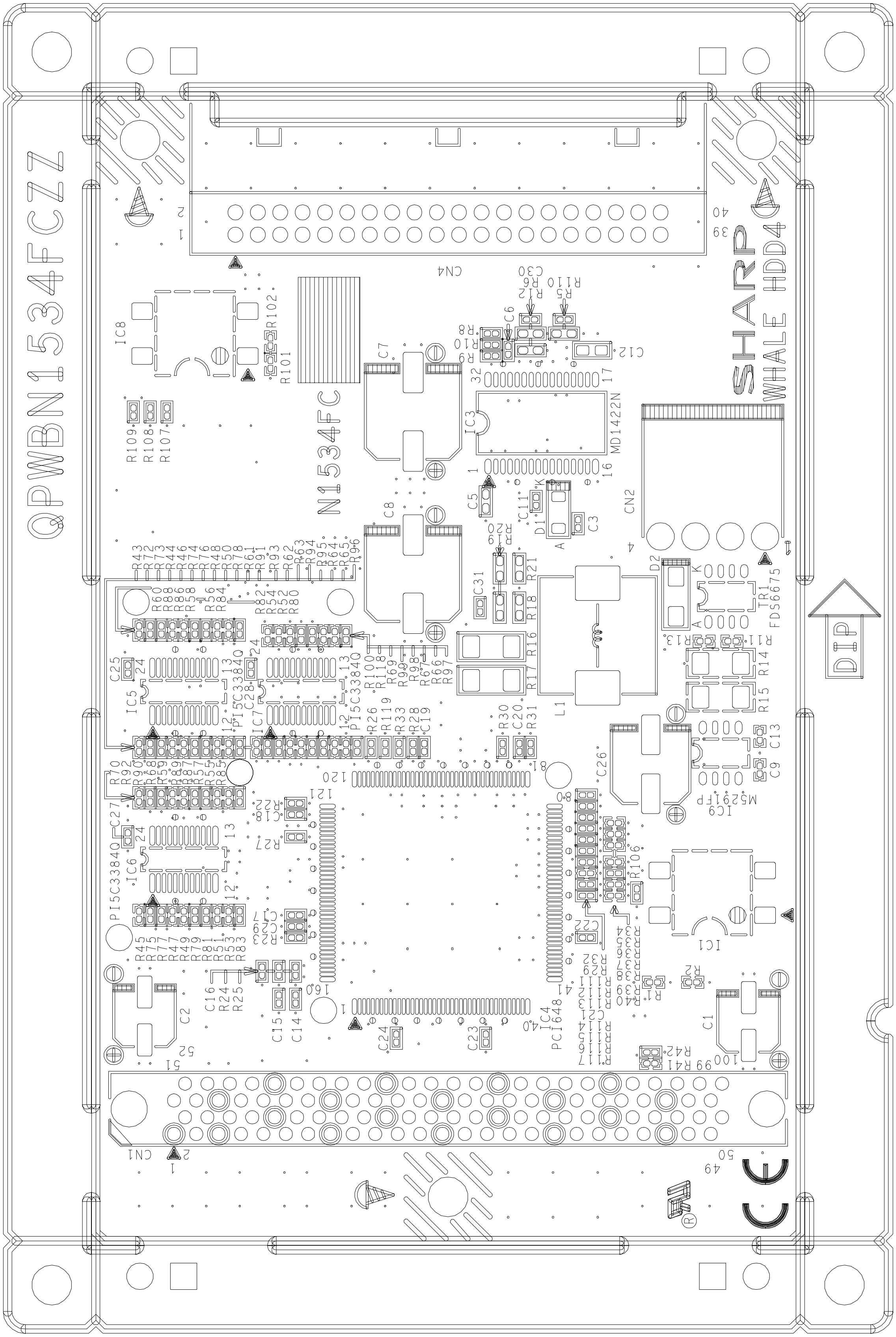
A
B
C
5
4
3
2
1
2 IDE_DD[15..0]
2 IDE_DA[2..0]
2 IDE_CS[1..0]
1 XHDDPW
+5V
C25
0.1u
TP40
TP41
TP42
TP43
TP44
TP45
TP46
TP47
TP58
TP59
IC5
BEA
BEB
1
13
3 A0 B0 2
4 A1 B1 5
7 A2 B2 6
8 A3 B3 9
11 A4 B4 10
14 A5 B5 15
17 A6 B6 16
18 A7 B7 19
21 A8 B8 20
22 A9 B9 23
12 GND VCC 24
PI5C3384Q
2 IDE_RST_
IDE_DD7
IDE_DD6
IDE_DD5
IDE_DD4
IDE_DD3
IDE_DD2
IDE_DD1
IDE_DD0
2 IDE_DMARQ_
R43 33
R44 33
R46 33
R48 33
R50 33
R52 33
R54 33
R56 33
R58 33
R60 82
R61 33
R62 33
R63 82
R64 33
R65 82
R66 33
R67 33
R69 33
IC7
BEA
BEB
1
13
3 A0 B0 2
4 A1 B1 5
7 A2 B2 6
8 A3 B3 9
11 A4 B4 10
14 A5 B5 15
17 A6 B6 16
18 A7 B7 19
21 A8 B8 20
22 A9 B9 23
12 GND VCC 24
PI5C3384Q
2 IDE_DIOW_
2 IDE_DIOR_
2 IDE_IORDY
2 IDE_DACK_
2 IDE_INTRQ
IDE_DA1
IDE_DA0
IDE_CS0
2 IDE_CBLID_
TP95
TP96
R118 0
C28
0.1u
TP48
TP49
TP50
TP51
TP52
TP53
TP54
TP55
NO ASM
2 IDE_RST_
IDE_DD7
IDE_DD6
IDE_DD5
IDE_DD4
IDE_DD3
IDE_DD2
IDE_DD1
IDE_DD0
2 IDE_DMARQ_
R72 33
R73 33
R74 33
R76 33
R78 33
R80 33
R82 33
R84 33
R86 33
R88 82
2 IDE_DIOW_
2 IDE_DIOR_
2 IDE_IORDY
2 IDE_DACK_
2 IDE_INTRQ
IDE_DA1
IDE_DA0
IDE_CS0
R91 33
R93 33
R94 82
R95 33
R96 82
R97 33
R98 33
R99 33
2 IDE_CBLID_
R100 0
NO ASM
R119 0
IDE_DD15 TP15
IDE_DD14 TP14
IDE_DD13 TP13
IDE_DD12 TP12
IDE_DD11 TP11
IDE_DD10 TP10
IDE_DD9 TP23
IDE_DD8 TP22
IDE_DD7 TP21
IDE_DD6 TP20
IDE_DD5 TP19
IDE_DD4 TP18
IDE_DD3 TP17
IDE_DD2 TP16
IDE_DD1 TP9
IDE_DD0 TP8


C
D
E
3/3
5
4
3
2
1
1 HDD_PWR_5V
CN4
-RESET
DD7
DD6
DD5
DD4
DD3
DD2
DD1
DD0
GND
DMARQ
-DIOW
-DIOR
IORDY
-DMACK
INTRQ
DA1
DA0
-CS0
-DASP
GND
DD8
DD9
DD10
DD11
DD12
DD13
DD14
DD15
KEY
GND
GND
GND
CSEL
GND
-IOCS16
-PDIAG/-CBLID
DA2
-CS1
GND
40 38 36 34 32 30 28 26 24 22 20 18 16 14 12 10 8 6 4 2
39 37 35 33 31 29 27 25 23 21 19 17 15 13 11 9 7 5 3 1
RK-H401SD-0110
C26
220uF/10V
NO ASM
TP30 TP31 TP32 TP33 TP34 TP35 TP36 TP37 TP38 TP39
R45 33
R47 33
R49 33
R51 33
R53 33
R55 33
R57 33
R59 33
R68 33
R70 33
+5V
C27
0.1u
IC6
BEA 1
BEB 13
B0 2
B1 5
B2 6
B3 9
B4 10
B5 15
B6 16
B7 19
B8 20
B9 23
VCC 24
A0 3
A1 4
A2 7
A3 8
A4 11
A5 14
A6 17
A7 18
A8 21
A9 22
GND 12
PI5C3384Q
IDE_DD8
IDE_DD9
IDE_DD10
IDE_DD11
IDE_DD12
IDE_DD13
IDE_DD14
IDE_DD15
IDE_DA2
IDE_CS1
R75 33
R77 33
R79 33
R81 33
R83 33
R85 33
R87 33
R89 33
R90 33
R92 33
IDE_DD8
IDE_DD9
IDE_DD10
IDE_DD11
IDE_DD12
IDE_DD13
IDE_DD14
IDE_DD15
IDE_DA2
IDE_CS1

HDD PWB

PARTS LAYOUT / 部品配置図

[PARTS SURFACE / 部品面]


QPWBN1534FCZZ
N1534FC
SHARP
WHALE HDD4
WHALE-HDD4
PWB2005027C
DIP
CN4
CN2
CN1
IC1
IC3
IC4
IC5
IC6
IC7
IC8
IC9
MD1422N
M5291FP
PI5C3384Q
PCI648
FDS6675
TR1
L1
D1
D2
C1
C2
C3
C5
C7
C8
C9
C11
C12
C13
C14
C15
C16
C17
C18
C19
C20
C21
C22
C23
C24
C25
C26
C27
C28
C29
C30
C31
R2
R5
R6
R8
R9
R10
R11
R12
R13
R14
R15
R16
R17
R18
R19
R20
R21
R22
R24
R25
R26
R27
R28
R29
R30
R31
R32
R33
R40
R41
R42
R43
R44
R45
R46
R47
R48
R49
R50
R51
R52
R53
R54
R56
R58
R60
R61
R62
R63
R64
R65
R66
R67
R68
R69
R70
R72
R73
R74
R75
R76
R77
R78
R79
R80
R81
R82
R83
R84
R86
R88
R90
R91
R92
R93
R94
R95
R96
R97
R98
R99
R100
R101
R102
R106
R107
R108
R109
R110
R113
R114
R115
R116
R117
R118
R119
1
2
39
40
49
50
51
52
99
100
121
120
160
80
81
41
16
17
32
13
24
12
A
K

K. PRINT CONTROL PWB / プリンタコントローラPWB

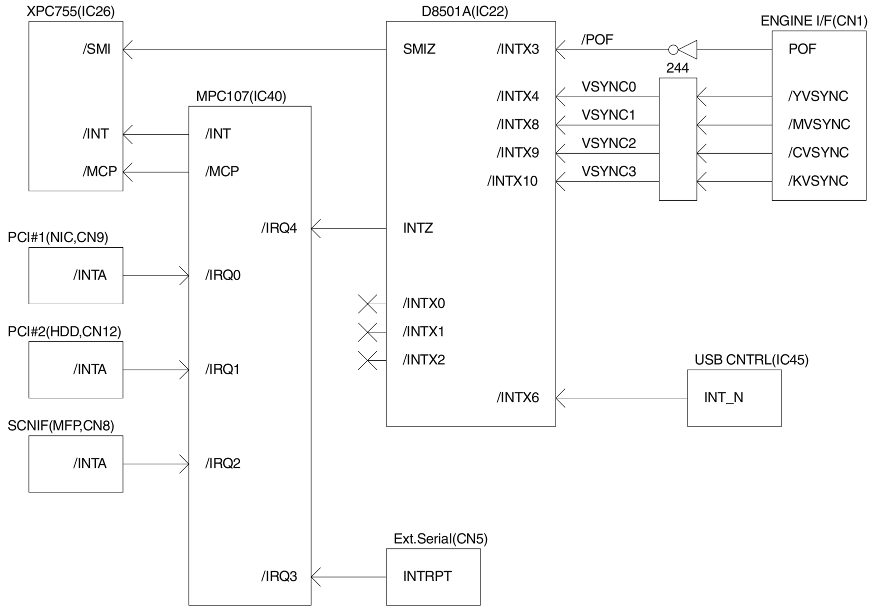
PRINT CONTROL PWB (INFORMATION)

1/24

PRINT CONTROLLER BOARD (ALPHA-5)

PAGE01 : INFORMATION
PAGE02 : SYSTEM CONFIGURATION
PAGE03 : POWER
PAGE04 : XPC755-1
PAGE05 : XPC755-2 / 60X BUS DUMP RES.
PAGE06 : MPC107-1(PCI/60X)
PAGE07 : MPC107-2(MEMORY INTERFACE / PLL) / JTAG
PAGE08 : CAP(XPC755 / MPC107)
PAGE09 : BOOT ROM / BUFFER
PAGE10 : ON BOARD SDRAM
PAGE11 : SDRAM DIMM SOCKET #0 / #1
PAGE12 : SDRAM CLKDRV / MEMORY DUMP RES.
PAGE13 : PCI SLOT #1(NIC),#2(HDD)/SCNIF SLOT
PAGE14 : TEST PIN
PAGE15 : ENGINE INTERFACE
PAGE16 : D3032
PAGE17 : RTC / BATTERY / EEPROM
PAGE18 : IEEE1284 I/F
PAGE19 : RESET/COP CN
PAGE20 : D8501A IO BUS BUFFER
PAGE21 : USB INTERFACE (OKI)
PAGE22 : FLASH SDIMM
PAGE23 : D8501A-1
PAGE24 : D8501A-2

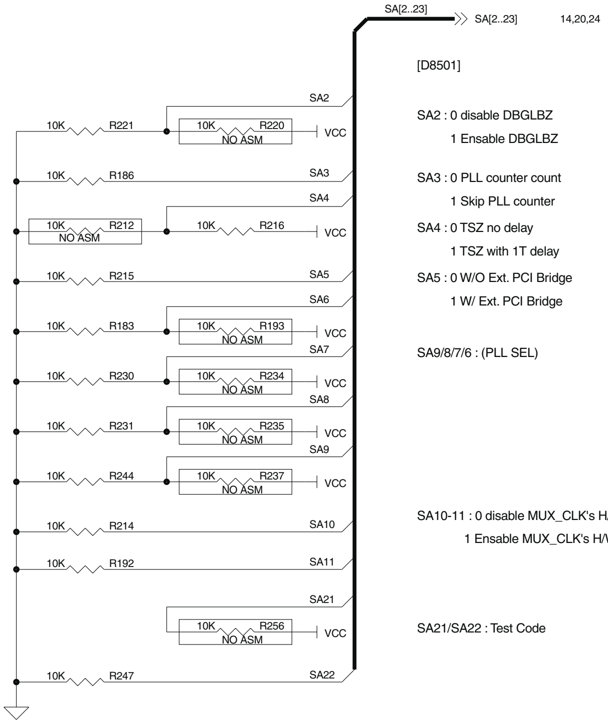
Interrupt Connection


XPC755(IC26)
/SMI
/INT
/MCP
MPC107(IC40)
/INT
/MCP
/IRQ4
/IRQ0
/IRQ1
/IRQ2
/IRQ3
PCI#1(NIC,CN9)
/INTA
PCI#2(HDD,CN12)
/INTA
SCNIF(MFP,CN8)
/INTA
D8501A(IC22)
SMIZ
/INTX3
/INTX4
/INTX8
/INTX9
/INTX10
INTZ
/INTX0
/INTX1
/INTX2
/INTX6
/POF
VSYNC0
VSYNC1
VSYNC2
VSYNC3
244
ENGINE I/F(CN1)
POF
/YVSYNC
/MVSYNC
/CVSYNC
/KVSYNC
USB CNTRL(IC45)
INT_N
Ext.Serial(CN5)
INTRPT

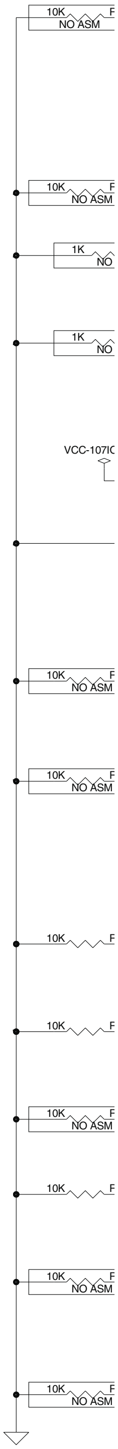
PRINT CONTROL PWB (SYSTEM CONFIGURATION)

[MP

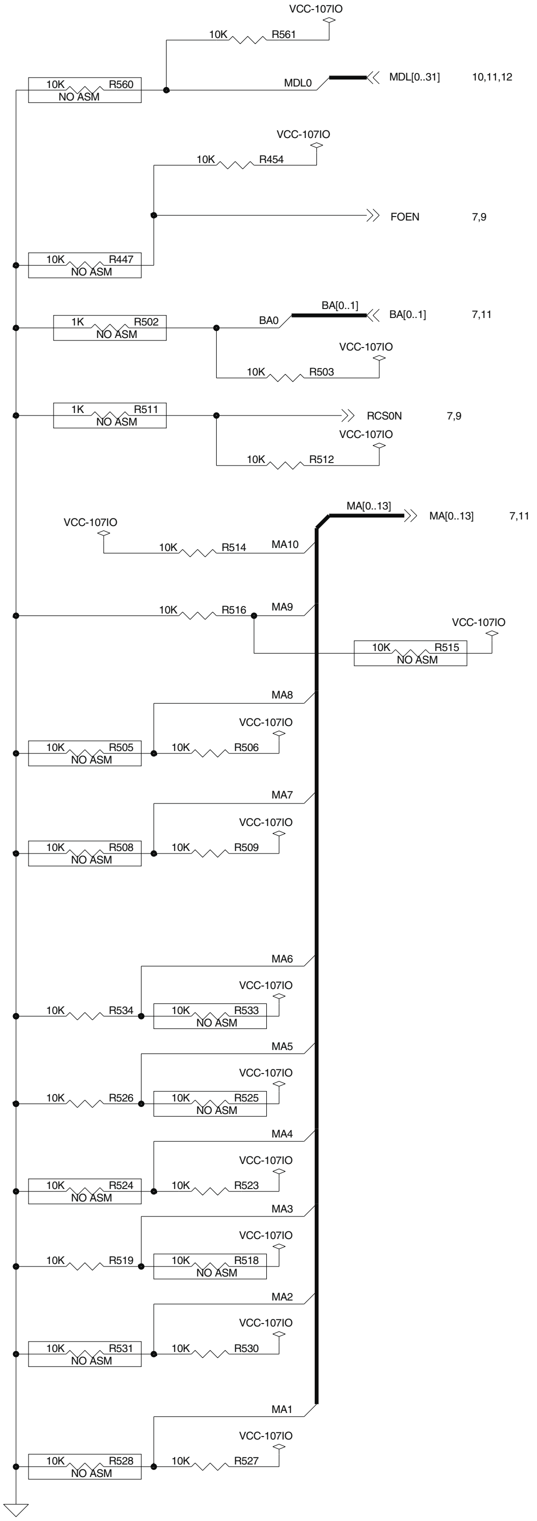
[D8501A RESET OPTIONS]


SA[2..23]
SA[2..23]
14,20,24
SA2
10K R221
10K R220 NO ASM
VCC
10K R186
SA3
SA4
10K R212 NO ASM
10K R216
VCC
10K R215
SA5
SA6
10K R183
10K R193 NO ASM
VCC
SA7
10K R230
10K R234 NO ASM
VCC
SA8
10K R231
10K R235 NO ASM
VCC
SA9
10K R244
10K R237 NO ASM
VCC
10K R214
SA10
10K R192
SA11
SA21
10K R256 NO ASM
VCC
10K R247
SA22

[D8501]	[D8501A]
SA2 : 0 disable DBGLBZ 1 Ensable DBGLBZ	SA2 : 0 disable DBGLBZ 1 Ensable DBGLBZ
SA3 : 0 PLL counter count 1 Skip PLL counter	SA3 : 0 PLL counter count 1 Skip PLL counter
SA4 : 0 TSZ no delay 1 TSZ with 1T delay	SA4 : 0 Use OSC as the internal main clock 1 Use DLL as the internal main clock
SA5 : 0 W/O Ext. PCI Bridge 1 W/ Ext. PCI Bridge	SA5 : 0 Vdo clock does not use DPBCLK 1 Vdo clock use DPBCLK
SA9/8/7/6 : (PLL SEL)	
SA10-11 : 0 disable MUX_CLK's H/W config. 1 Ensable MUX_CLK's H/W config.	
SA21/SA22 : Test Code	SA21/SA22 : Test Code


10K NO ASM
10K NO ASM
1K NO
1K NO
VCC-107I
10K NO ASM
10K NO ASM
10K
10K
10K NO ASM
10K
10K NO ASM
10K NO ASM

[MPC107 RESET CONFIGURATION] (UM-Section 2.4)


VCC-107IO
10K R561
10K R560
NO ASM
MDL0
MDL[0..31] 10,11,12
VCC-107IO
10K R454
FOEN 7,9
10K R447
NO ASM
BA[0..1]
1K R502
NO ASM
BA0
BA[0..1] 7,11
VCC-107IO
10K R503
1K R511
NO ASM
RCS0N 7,9
VCC-107IO
10K R512
MA[0..13]
MA[0..13] 7,11
VCC-107IO
10K R514
MA10
10K R516
MA9
VCC-107IO
10K R515
NO ASM
MA8
VCC-107IO
10K R505
NO ASM
10K R506
MA7
VCC-107IO
10K R508
NO ASM
10K R509
MA6
VCC-107IO
10K R534
10K R533
NO ASM
MA5
VCC-107IO
10K R526
10K R525
NO ASM
MA4
VCC-107IO
10K R524
NO ASM
10K R523
MA3
VCC-107IO
10K R519
10K R518
NO ASM
MA2
VCC-107IO
10K R531
NO ASM
10K R530
MA1
VCC-107IO
10K R528
NO ASM
10K R527

ROM Data Width [MDL(0), FOE]

For ROM/FLASH chip select #0/1

	RCS0 (bit)	RCS1 (bit)	MDL0	FOE	MCCR4-bit17
	64	64	1	0	0
	64	8	1	0	1
-->	8	64	1	1	0
	8	8	1	1	1

Initial Address Map [SDBA0]

0 : The MPC107 is configured for address map A
(not supported when operating in PCI agent mode)

1 : The MPC107 is configured for address map B

Boot Memory Location [/RCS0]

0 : Indicates that boot ROM is located on the PCI bus

1 : Indicates that boot ROM is located on local processor/memory data bus

MPC107 Host Mode [SDMA10]

0 MPC107 is a PCI agent device

1 MPC107 is a PCI master (host) device

PCI Arbiter [SDMA9]

0 : PCI arbiter enabled

1 : PCI arbiter disabled

Driver capability for MDH[0:31], MDL[0:31], PAR[0:7], and RCS1 [SDMA8]

1 : 20-ohm data bus drive capability; when this is selected,
only 8-ohm or 13.3-ohm drive capability is allowed for SDMA7

0 : 40-ohm data bus drive capability; when this is selected,
only 20-ohm or 40-ohm drive capability is allowed for SDMA7

Driver capability for address signals (RAS/CS[0:7], CAS/DQM[0:7], WE, FOE, RCS0,
RCS2, RCS3, SDBA0, SDRAS, SDCAS, CKE, AS, SDMA[13:0]) [SDMA7]
[SDMA8, SDMA7]

11 : 8-ohm drive capability

10 : 13.3-ohm drive capability

01 : 20-ohm drive capability

00 : 40-ohm drive capability

Driver capability for PCI and EPIC controller output signals [SDMA6]

0 : High drive capability on PCI signals (25 ohm)

1 : Medium drive capability on PCI signals (50 ohm)

Driver capability for SDA, SCL, CKO, QACK, and MCP as well as 60x output signals [SDMA5]

0 : High drive capability on CPU signals (20 ohm)

1 : Medium drive capability on CPU signals (40 ohm)

PCI output hold delay value (in nanoseconds) relative to PCI_SYNC_IN [SDMA4, SDMA3]

[SDMA4, SDMA3, '0'] (UM-Section 4.3.2)

000 : Recommended for 66MHz PCI bus

100 : Recommended for 33MHz PCI bus

Clock flip disable [SDMA2]

(Section 2.3.3)

0 : Clock flip enabled

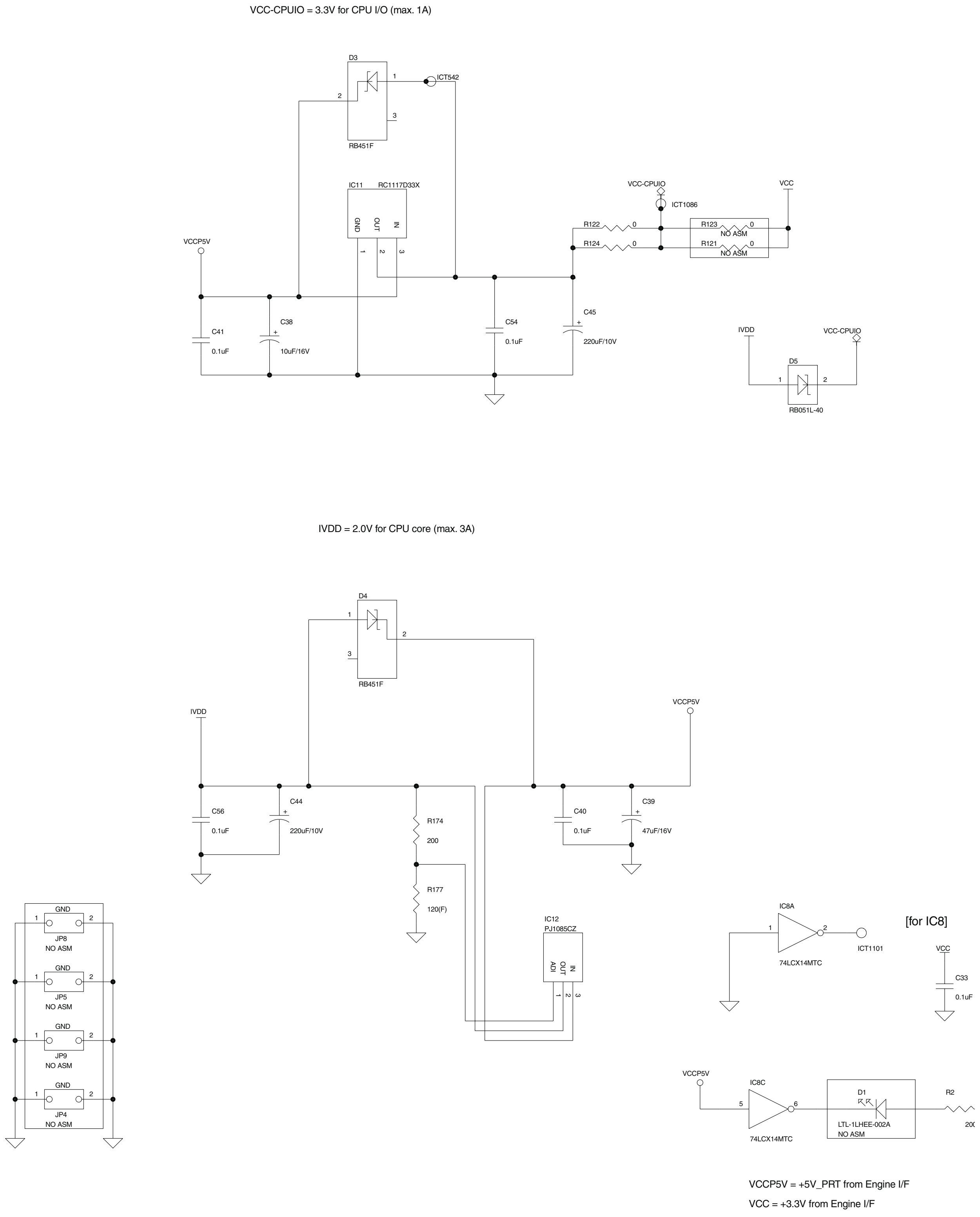
1 : No clock flip

DLL lock range extend [SDMA1]

0 : DLL lock range extended

1 : Standard DLL range

PRINT CONTROL PWB (POWER)


VCC-CPUIO = 3.3V for CPU I/O (max. 1A)

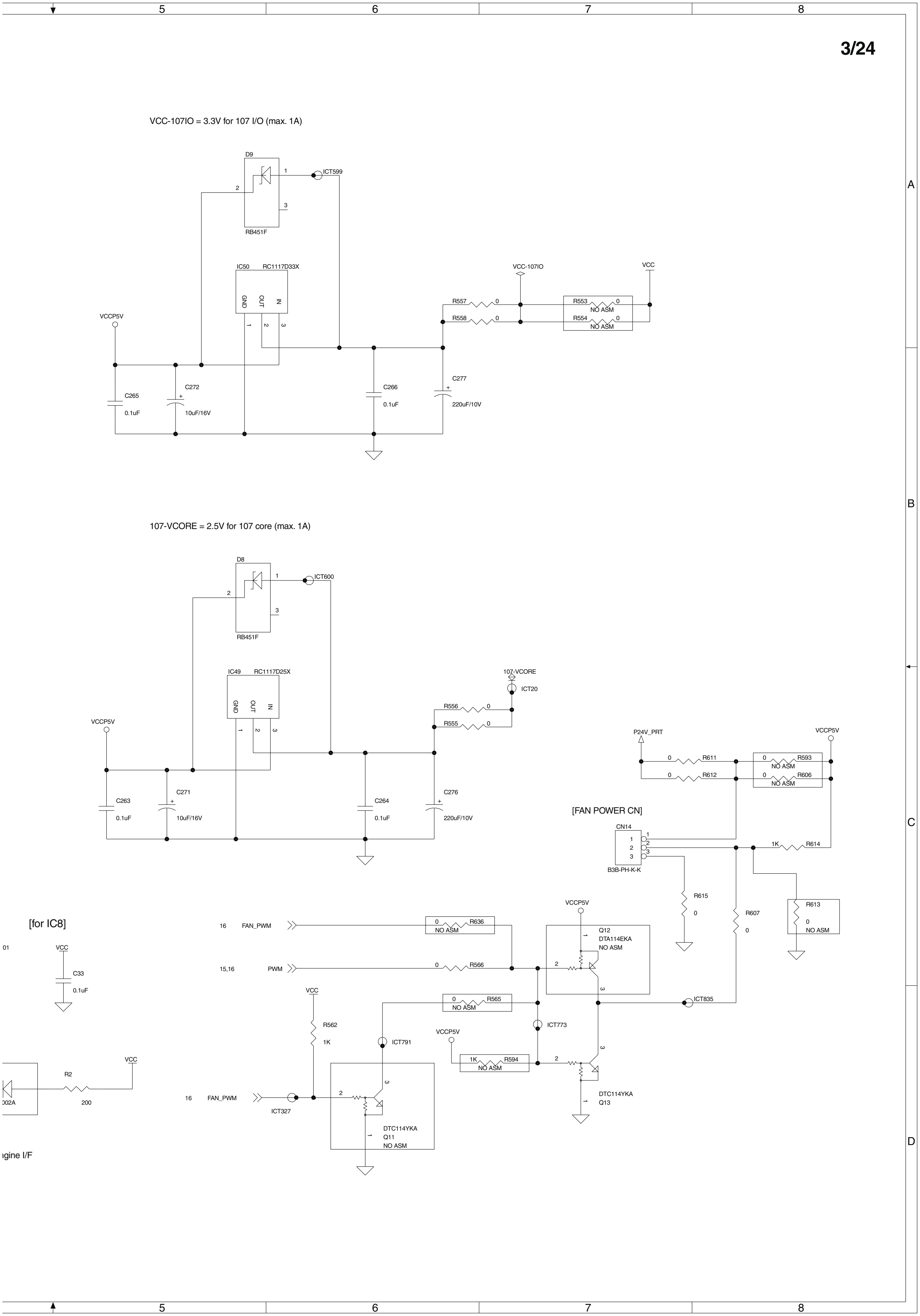
IVDD = 2.0V for CPU core (max. 3A)

[for IC8]

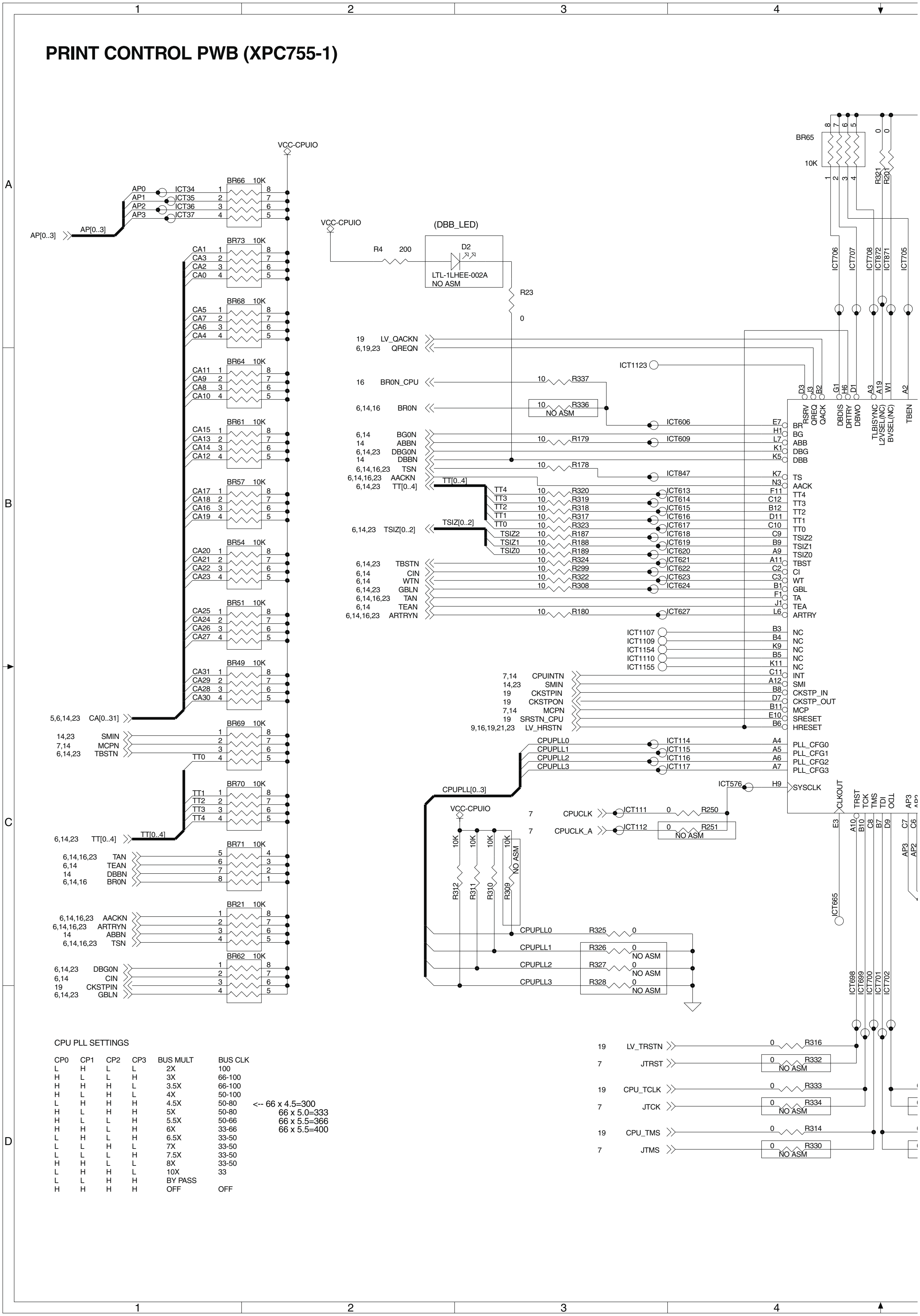
VCCP5V = +5V_PRT from Engine I/F

VCC = +3.3V from Engine I/F

1
2
3
4
A
B
C
D
D3
RB451F
ICT542
IC11
RC1117D33X
GND
OUT
IN
VCCP5V
C41
0.1uF
C38
10uF/16V
C54
0.1uF
C45
220uF/10V
VCC-CPUIO
ICT1086
VCC
R122
0
R124
0
R123
0
NO ASM
R121
0
NO ASM
IVDD
VCC-CPUIO
D5
RB051L-40
D4
RB451F
IVDD
VCCP5V
C56
0.1uF
C44
220uF/10V
R174
200
R177
120(F)
C40
0.1uF
C39
47uF/16V
IC12
PJ1085CZ
IN
OUT
ADI
GND
JP8
NO ASM
GND
JP5
NO ASM
GND
JP9
NO ASM
GND
JP4
NO ASM
IC8A
74LCX14MTC
ICT1101
VCC
C33
0.1uF
VCCP5V
IC8C
74LCX14MTC
D1
LTL-1LHEE-002A
NO ASM
R2
200


5
6
7
8
A
B
C
D
VCC-107IO = 3.3V for 107 I/O (max. 1A)
D9
RB451F
ICT599
IC50 RC1117D33X
GND
OUT
IN
VCC-107IO
VCC
R557 0
R558 0
R553 0
NO ASM
R554 0
NO ASM
VCCP5V
C265 0.1uF
C272 10uF/16V
C266 0.1uF
C277 220uF/10V
107-VCORE = 2.5V for 107 core (max. 1A)
D8
RB451F
ICT600
IC49 RC1117D25X
107-VCORE
ICT20
R556 0
R555 0
C263 0.1uF
C271 10uF/16V
C264 0.1uF
C276 220uF/10V
P24V_PRT
R611
R612
R593
R606
NO ASM
[FAN POWER CN]
CN14
B3B-PH-K-K
1K R614
R615 0
R607 0
R613 0 NO ASM
[for IC8]
VCC
C33 0.1uF
16 FAN_PWM
15,16 PWM
R636 NO ASM
R566
Q12 DTA114EKA NO ASM
R565 NO ASM
ICT773
ICT835
VCC
R562 1K
ICT791
VCCP5V
1K R594 NO ASM
DTC114YKA Q13
16 FAN_PWM
ICT327
DTC114YKA Q11 NO ASM
R2 200
002A
gine I/F

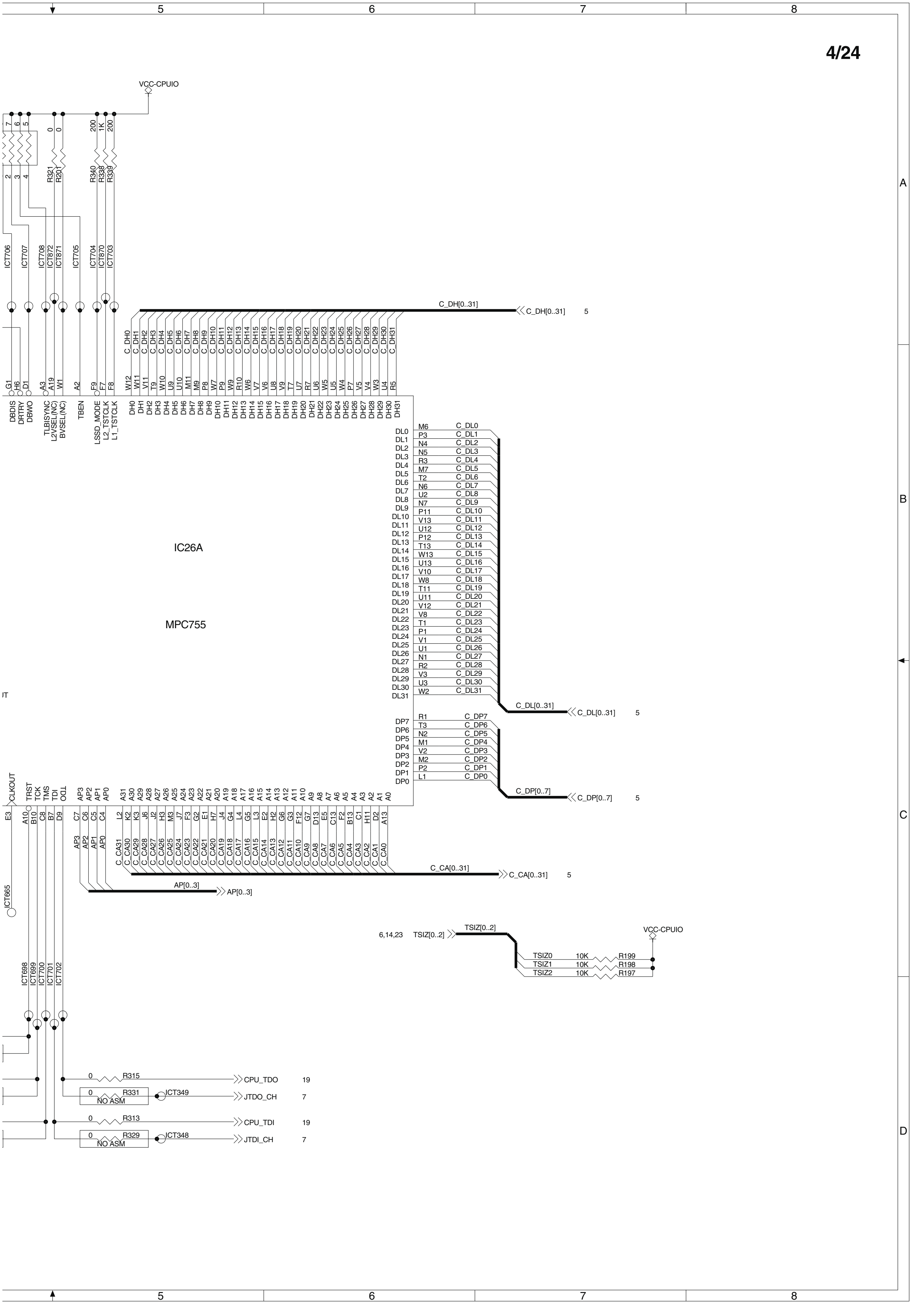
PRINT CONTROL PWB (XPC755-1)



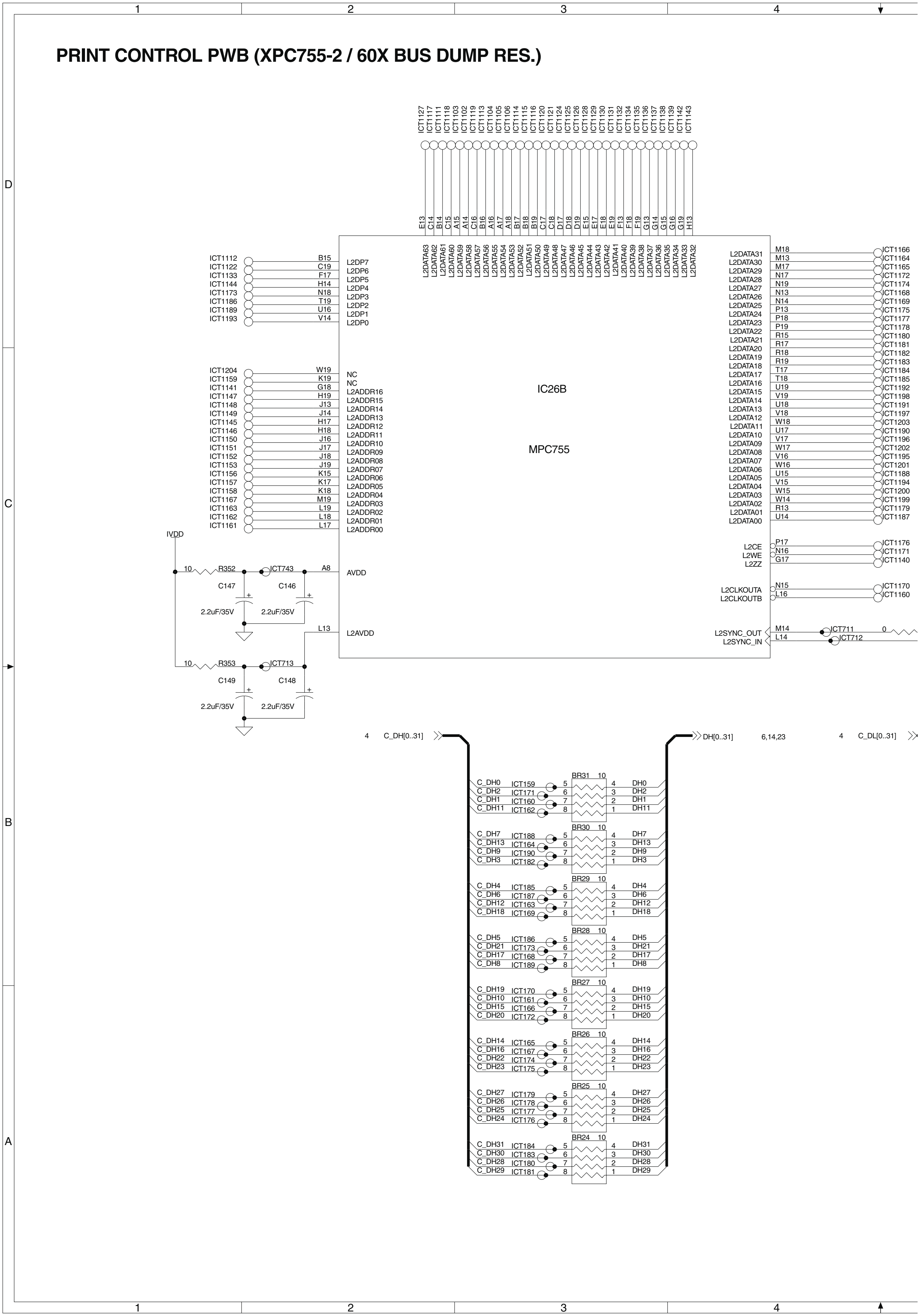
1
2
3
4
A
B
C
D
VCC-CPUIO
AP[0..3]
AP0
AP1
AP2
AP3
ICT34
ICT35
ICT36
ICT37
BR66 10K
BR73 10K
BR68 10K
BR64 10K
BR61 10K
BR57 10K
BR54 10K
BR51 10K
BR49 10K
BR69 10K
BR70 10K
BR71 10K
BR21 10K
BR62 10K
CA1
CA3
CA2
CA0
CA5
CA7
CA6
CA4
CA11
CA9
CA8
CA10
CA15
CA13
CA14
CA12
CA17
CA18
CA16
CA19
CA20
CA21
CA22
CA23
CA25
CA24
CA26
CA27
CA31
CA29
CA28
CA30
5,6,14,23 CA[0..31]
14,23 SMIN
7,14 MCPN
6,14,23 TBSTN
TT0
TT1
TT2
TT3
TT4
6,14,23 TT[0..4]
6,14,16,23 TAN
6,14 TEAN
14 DBBN
6,14,16 BR0N
6,14,16,23 AACKN
6,14,16,23 ARTRYN
14 ABBN
6,14,16,23 TSN
6,14,23 DBG0N
6,14 CIN
19 CKSTPIN
6,14,23 GBLN
(DBB_LED)
R4 200
D2
LTL-1LHEE-002A
NO ASM
R23
0
19 LV_QACKN
6,19,23 QREQN
ICT1123
16 BR0N_CPU
10 R337
6,14,16 BR0N
10 R336
NO ASM
ICT606
6,14 BG0N
14 ABBN
6,14,23 DBG0N
14 DBBN
6,14,16,23 TSN
6,14,16,23 AACKN
6,14,23 TT[0..4]
10 R179
ICT609
10 R178
ICT847
TT[0..4]
TT4
TT3
TT2
TT1
TT0
10 R320
10 R319
10 R318
10 R317
10 R323
10 R187
10 R188
10 R189
10 R324
10 R299
10 R322
10 R308
10 R180
ICT613
ICT614
ICT615
ICT616
ICT617
ICT618
ICT619
ICT620
ICT621
ICT622
ICT623
ICT624
ICT627
6,14,23 TSIZ[0..2]
TSIZ[0..2]
TSIZ2
TSIZ1
TSIZ0
6,14,23 TBSTN
6,14 CIN
6,14 WTN
6,14,23 GBLN
6,14,16,23 TAN
6,14 TEAN
6,14,16,23 ARTRYN
ICT1107
ICT1109
ICT1154
ICT1110
ICT1155
7,14 CPUINTN
14,23 SMIN
19 CKSTPIN
19 CKSTPON
7,14 MCPN
19 SRSTN_CPU
9,16,19,21,23 LV_HRSTN
CPUPLL0
CPUPLL1
CPUPLL2
CPUPLL3
ICT114
ICT115
ICT116
ICT117
CPUPLL[0..3]
ICT576
7 CPUCLK
7 CPUCLK_A
ICT111
ICT112
0 R250
0 R251
NO ASM
10K
R312
R311
R310
R309
NO ASM
R325 0
R326 0 NO ASM
R327 0 NO ASM
R328 0 NO ASM
BR65
10K
R321
R201
ICT706
ICT707
ICT708
ICT872
ICT871
ICT705
E7 BR
H1 BG
L7 ABB
K1 DBG
K5 DBB
K7 TS
N3 AACK
F11 TT4
C12 TT3
B12 TT2
D11 TT1
C10 TT0
C9 TSIZ2
B9 TSIZ1
A9 TSIZ0
A11 TBST
C2 CI
C3 WT
B1 GBL
F1 TA
J1 TEA
L6 ARTRY
B3 NC
B4 NC
K9 NC
B5 NC
K11 NC
C11 INT
A12 SMI
B8 CKSTP_IN
D7 CKSTP_OUT
B11 MCP
E10 SRESET
B6 HRESET
A4 PLL_CFG0
A5 PLL_CFG1
A6 PLL_CFG2
A7 PLL_CFG3
H9 SYSCLK
D3 RSRV
J3 QREQ
B2 QACK
G1 DBDIS
H6 DRTRY
D1 DBWO
A3 TLBISYNC
A19 L2VSEL(NC)
W1 BVSEL(NC)
A2 TBEN
E3 CLKOUT
A10 TRST
B10 TCK
C8 TMS
B7 TDI
D9 TDO
C7 AP3
C6 AP2
ICT665
ICT698
ICT699
ICT700
ICT701
ICT702
19 LV_TRSTN
7 JTRST
19 CPU_TCLK
7 JTCK
19 CPU_TMS
7 JTMS
0 R316
0 R332 NO ASM
0 R333
0 R334 NO ASM
0 R314
0 R330 NO ASM

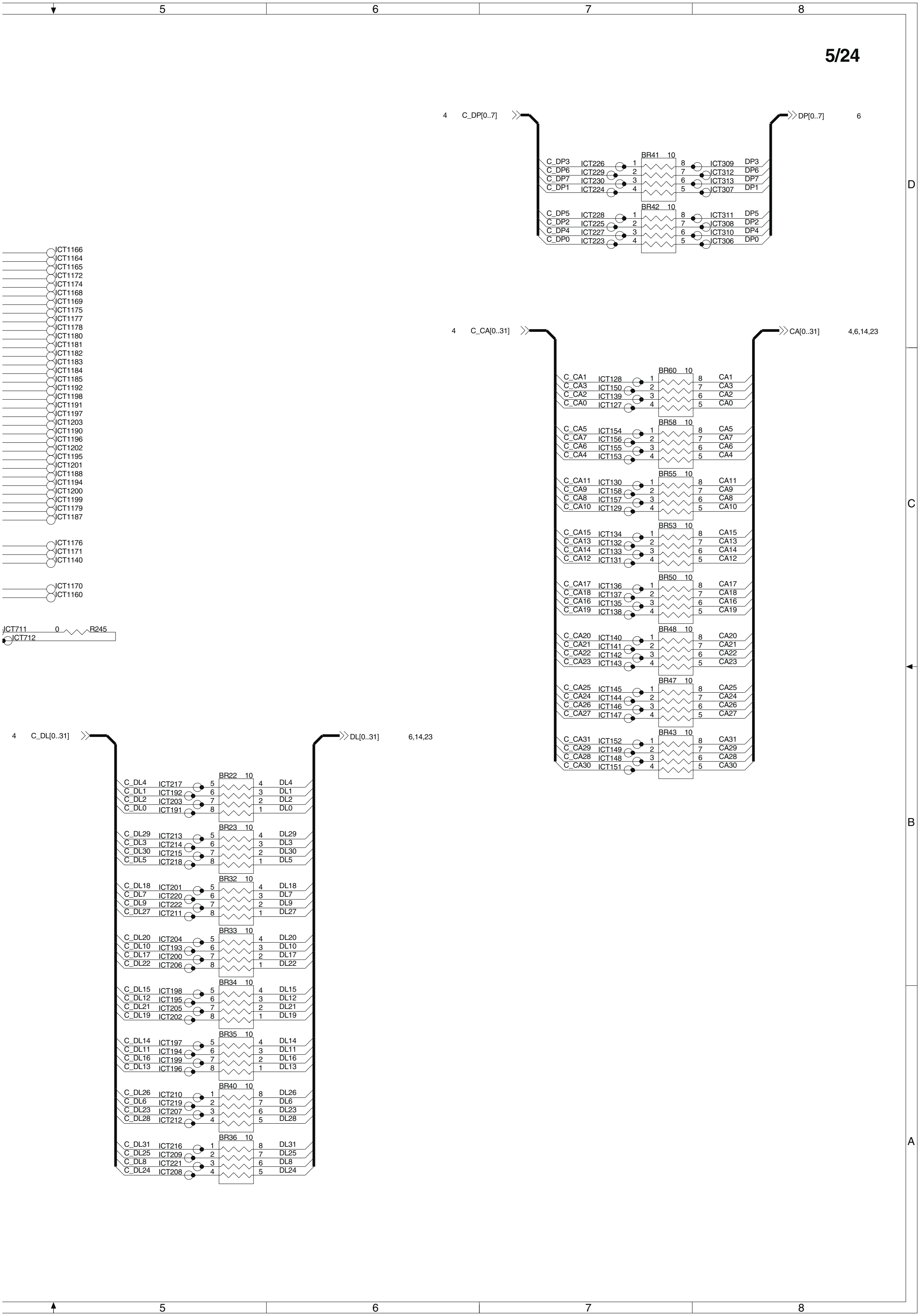
CPU PLL SETTINGS

CP0	CP1	CP2	CP3	BUS MULT	BUS CLK	
L	H	L	L	2X	100	
H	L	L	H	3X	66-100	
H	H	H	L	3.5X	66-100	
H	L	H	L	4X	50-100	
L	H	H	H	4.5X	50-80	<-- 66 x 4.5=300
H	L	H	H	5X	50-80	66 x 5.0=333
H	L	L	H	5.5X	50-66	66 x 5.5=366
H	H	L	H	6X	33-66	66 x 5.5=400
L	H	L	H	6.5X	33-50	
L	L	H	L	7X	33-50	
L	L	L	H	7.5X	33-50	
H	H	L	L	8X	33-50	
L	H	H	L	10X	33	
L	L	H	H	BY PASS		
H	H	H	H	OFF	OFF	

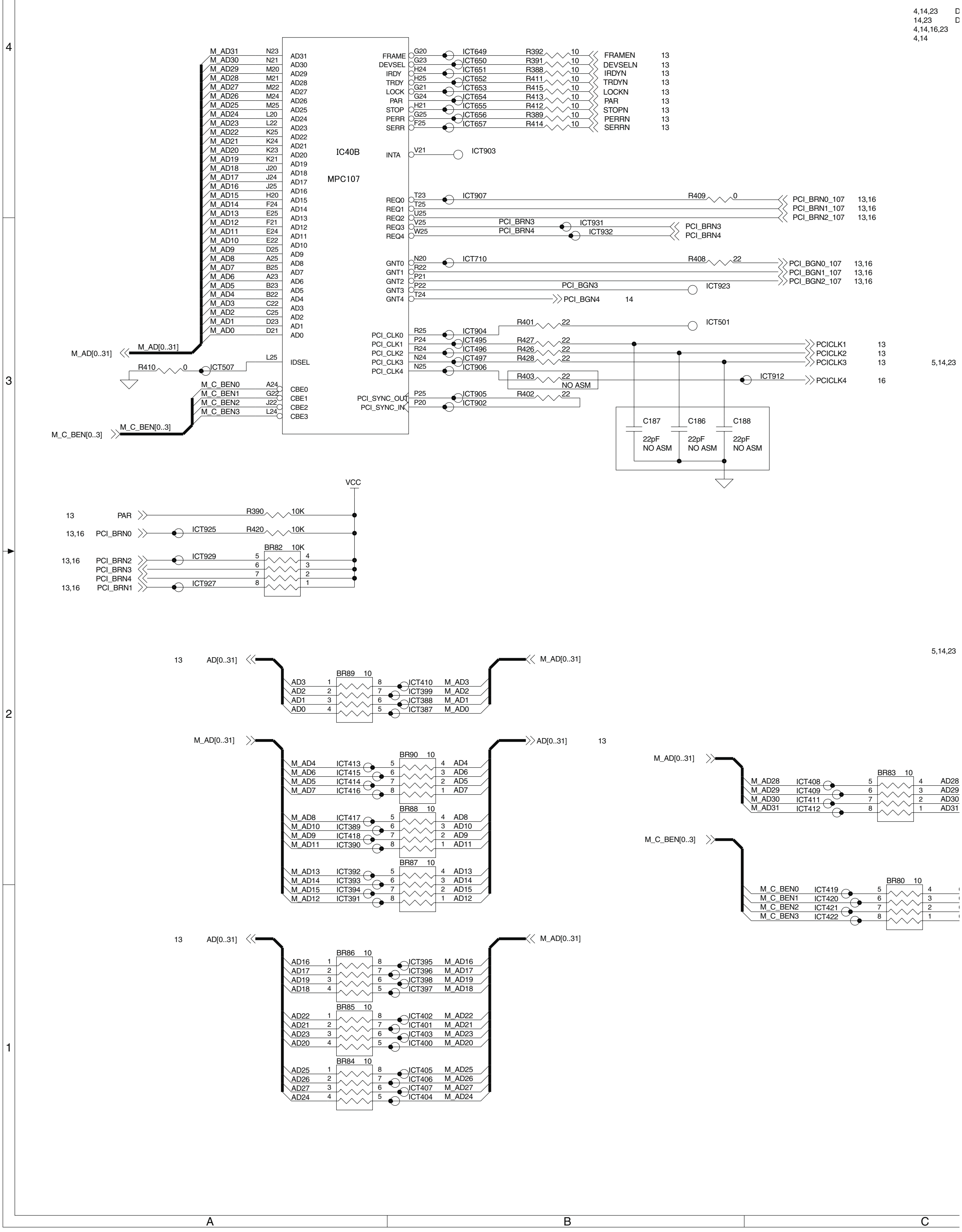

5
6
7
8
A
B
C
D
VCC-CPUIO
R321
R201
R340
R338
R339
ICT706
ICT707
ICT708
ICT872
ICT871
ICT705
ICT704
ICT870
ICT703
DBDIS
DRTRY
DBWO
TLBISYNC
L2VSEL(NC)
BVSEL(NC)
TBEN
LSSD_MODE
L2_TSTCLK
L1_TSTCLK
C_DH[0..31]
C_DH0 … C_DH31
DH0 … DH31
C_DL[0..31]
DL0 … DL31
C_DL0 … C_DL31
IC26A
MPC755
C_DP[0..7]
DP0 … DP7
C_DP0 … C_DP7
CLKOUT
TRST
TCK
TMS
TDI
TDO
AP0 … AP3
AP[0..3]
A0 … A31
C_CA0 … C_CA31
C_CA[0..31]
ICT665
6,14,23
TSIZ[0..2]
TSIZ0
TSIZ1
TSIZ2
10K
R199
R198
R197
ICT698
ICT699
ICT700
ICT701
ICT702
R315
CPU_TDO
19
R331
NO ASM
ICT349
JTDO_CH
7
R313
CPU_TDI
19
R329
NO ASM
ICT348
JTDI_CH
7

PRINT CONTROL PWB (XPC755-2 / 60X BUS DUMP RES.)

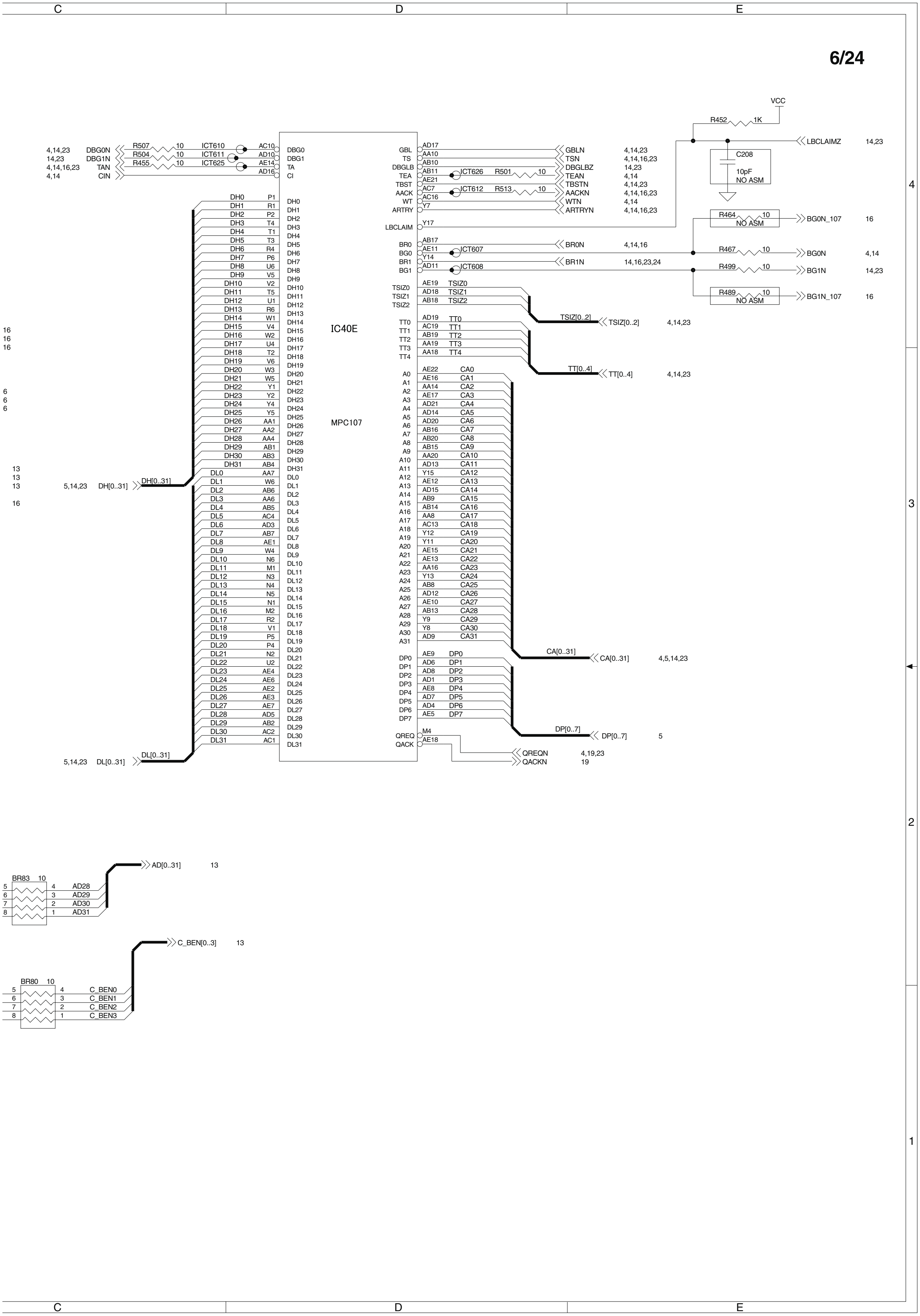

1
2
3
4
D
C
B
A
IC26B
MPC755
ICT1127 ICT1117 ICT1111 ICT1118 ICT1103 ICT1102 ICT1119 ICT1113 ICT1104 ICT1106 ICT1105 ICT1114 ICT1115 ICT1116 ICT1120 ICT1121 ICT1124 ICT1125 ICT1126 ICT1128 ICT1129 ICT1130 ICT1131 ICT1132 ICT1134 ICT1135 ICT1136 ICT1137 ICT1138 ICT1139 ICT1142 ICT1143
E13 C14 B14 C15 A15 A14 C16 B16 A16 A17 A18 B17 B18 B19 C17 C18 D17 D18 D19 E15 E17 E18 E19 F13 F18 F19 G13 G14 G15 G16 G19 H13
L2DATA63 L2DATA62 L2DATA61 L2DATA60 L2DATA59 L2DATA58 L2DATA57 L2DATA56 L2DATA55 L2DATA54 L2DATA53 L2DATA52 L2DATA51 L2DATA50 L2DATA49 L2DATA48 L2DATA47 L2DATA46 L2DATA45 L2DATA44 L2DATA43 L2DATA42 L2DATA41 L2DATA40 L2DATA39 L2DATA38 L2DATA37 L2DATA36 L2DATA35 L2DATA34 L2DATA33 L2DATA32
ICT1112 B15 L2DP7
ICT1122 C19 L2DP6
ICT1133 F17 L2DP5
ICT1144 H14 L2DP4
ICT1173 N18 L2DP3
ICT1186 T19 L2DP2
ICT1189 U16 L2DP1
ICT1193 V14 L2DP0
ICT1204 W19 NC
ICT1159 K19 NC
ICT1141 G18 L2ADDR16
ICT1147 H19 L2ADDR15
ICT1148 J13 L2ADDR14
ICT1149 J14 L2ADDR13
ICT1145 H17 L2ADDR12
ICT1146 H18 L2ADDR11
ICT1150 J16 L2ADDR10
ICT1151 J17 L2ADDR09
ICT1152 J18 L2ADDR08
ICT1153 J19 L2ADDR07
ICT1156 K15 L2ADDR06
ICT1157 K17 L2ADDR05
ICT1158 K18 L2ADDR04
ICT1167 M19 L2ADDR03
ICT1163 L19 L2ADDR02
ICT1162 L18 L2ADDR01
ICT1161 L17 L2ADDR00
L2DATA31 M18 ICT1166
L2DATA30 M13 ICT1164
L2DATA29 M17 ICT1165
L2DATA28 N17 ICT1172
L2DATA27 N19 ICT1174
L2DATA26 N13 ICT1168
L2DATA25 N14 ICT1169
L2DATA24 P13 ICT1175
L2DATA23 P18 ICT1177
L2DATA22 P19 ICT1178
L2DATA21 R15 ICT1180
L2DATA20 R17 ICT1181
L2DATA19 R18 ICT1182
L2DATA18 R19 ICT1183
L2DATA17 T17 ICT1184
L2DATA16 T18 ICT1185
L2DATA15 U19 ICT1192
L2DATA14 V19 ICT1198
L2DATA13 U18 ICT1191
L2DATA12 V18 ICT1197
L2DATA11 W18 ICT1203
L2DATA10 U17 ICT1190
L2DATA09 V17 ICT1196
L2DATA08 W17 ICT1202
L2DATA07 V16 ICT1195
L2DATA06 W16 ICT1201
L2DATA05 U15 ICT1188
L2DATA04 V15 ICT1194
L2DATA03 W15 ICT1200
L2DATA02 W14 ICT1199
L2DATA01 R13 ICT1179
L2DATA00 U14 ICT1187
L2CE P17 ICT1176
L2WE N16 ICT1171
L2ZZ G17 ICT1140
L2CLKOUTA N15 ICT1170
L2CLKOUTB L16 ICT1160
L2SYNC_OUT M14 ICT711 0
L2SYNC_IN L14 ICT712
IVDD
10 R352 ICT743 A8 AVDD
C147 C146
2.2uF/35V 2.2uF/35V
L13 L2AVDD
10 R353 ICT713
C149 C148
2.2uF/35V 2.2uF/35V
4 C_DH[0..31]
DH[0..31] 6,14,23
4 C_DL[0..31]
BR31 10
C_DH0 ICT159 5 4 DH0
C_DH2 ICT171 6 3 DH2
C_DH1 ICT160 7 2 DH1
C_DH11 ICT162 8 1 DH11
BR30 10
C_DH7 ICT188 5 4 DH7
C_DH13 ICT164 6 3 DH13
C_DH9 ICT190 7 2 DH9
C_DH3 ICT182 8 1 DH3
BR29 10
C_DH4 ICT185 5 4 DH4
C_DH6 ICT187 6 3 DH6
C_DH12 ICT163 7 2 DH12
C_DH18 ICT169 8 1 DH18
BR28 10
C_DH5 ICT186 5 4 DH5
C_DH21 ICT173 6 3 DH21
C_DH17 ICT168 7 2 DH17
C_DH8 ICT189 8 1 DH8
BR27 10
C_DH19 ICT170 5 4 DH19
C_DH10 ICT161 6 3 DH10
C_DH15 ICT166 7 2 DH15
C_DH20 ICT172 8 1 DH20
BR26 10
C_DH14 ICT165 5 4 DH14
C_DH16 ICT167 6 3 DH16
C_DH22 ICT174 7 2 DH22
C_DH23 ICT175 8 1 DH23
BR25 10
C_DH27 ICT179 5 4 DH27
C_DH26 ICT178 6 3 DH26
C_DH25 ICT177 7 2 DH25
C_DH24 ICT176 8 1 DH24
BR24 10
C_DH31 ICT184 5 4 DH31
C_DH30 ICT183 6 3 DH30
C_DH28 ICT180 7 2 DH28
C_DH29 ICT181 8 1 DH29


5
6
7
8
D
C
B
A
5/24
4 C_DP[0..7]
DP[0..7] 6
BR41 10
C_DP3 ICT226 1 8 ICT309 DP3
C_DP6 ICT229 2 7 ICT312 DP6
C_DP7 ICT230 3 6 ICT313 DP7
C_DP1 ICT224 4 5 ICT307 DP1
BR42 10
C_DP5 ICT228 1 8 ICT311 DP5
C_DP2 ICT225 2 7 ICT308 DP2
C_DP4 ICT227 3 6 ICT310 DP4
C_DP0 ICT223 4 5 ICT306 DP0
ICT1166
ICT1164
ICT1165
ICT1172
ICT1174
ICT1168
ICT1169
ICT1175
ICT1177
ICT1178
ICT1180
ICT1181
ICT1182
ICT1183
ICT1184
ICT1185
ICT1192
ICT1198
ICT1191
ICT1197
ICT1203
ICT1190
ICT1196
ICT1202
ICT1195
ICT1201
ICT1188
ICT1194
ICT1200
ICT1199
ICT1179
ICT1187
ICT1176
ICT1171
ICT1140
ICT1170
ICT1160
ICT711 0 R245
ICT712
4 C_CA[0..31]
CA[0..31] 4,6,14,23
BR60 10
C_CA1 ICT128 1 8 CA1
C_CA3 ICT150 2 7 CA3
C_CA2 ICT139 3 6 CA2
C_CA0 ICT127 4 5 CA0
BR58 10
C_CA5 ICT154 1 8 CA5
C_CA7 ICT156 2 7 CA7
C_CA6 ICT155 3 6 CA6
C_CA4 ICT153 4 5 CA4
BR55 10
C_CA11 ICT130 1 8 CA11
C_CA9 ICT158 2 7 CA9
C_CA8 ICT157 3 6 CA8
C_CA10 ICT129 4 5 CA10
BR53 10
C_CA15 ICT134 1 8 CA15
C_CA13 ICT132 2 7 CA13
C_CA14 ICT133 3 6 CA14
C_CA12 ICT131 4 5 CA12
BR50 10
C_CA17 ICT136 1 8 CA17
C_CA18 ICT137 2 7 CA18
C_CA16 ICT135 3 6 CA16
C_CA19 ICT138 4 5 CA19
BR48 10
C_CA20 ICT140 1 8 CA20
C_CA21 ICT141 2 7 CA21
C_CA22 ICT142 3 6 CA22
C_CA23 ICT143 4 5 CA23
BR47 10
C_CA25 ICT145 1 8 CA25
C_CA24 ICT144 2 7 CA24
C_CA26 ICT146 3 6 CA26
C_CA27 ICT147 4 5 CA27
BR43 10
C_CA31 ICT152 1 8 CA31
C_CA29 ICT149 2 7 CA29
C_CA28 ICT148 3 6 CA28
C_CA30 ICT151 4 5 CA30
4 C_DL[0..31]
DL[0..31] 6,14,23
BR22 10
C_DL4 ICT217 5 4 DL4
C_DL1 ICT192 6 3 DL1
C_DL2 ICT203 7 2 DL2
C_DL0 ICT191 8 1 DL0
BR23 10
C_DL29 ICT213 5 4 DL29
C_DL3 ICT214 6 3 DL3
C_DL30 ICT215 7 2 DL30
C_DL5 ICT218 8 1 DL5
BR32 10
C_DL18 ICT201 5 4 DL18
C_DL7 ICT220 6 3 DL7
C_DL9 ICT222 7 2 DL9
C_DL27 ICT211 8 1 DL27
BR33 10
C_DL20 ICT204 5 4 DL20
C_DL10 ICT193 6 3 DL10
C_DL17 ICT200 7 2 DL17
C_DL22 ICT206 8 1 DL22
BR34 10
C_DL15 ICT198 5 4 DL15
C_DL12 ICT195 6 3 DL12
C_DL21 ICT205 7 2 DL21
C_DL19 ICT202 8 1 DL19
BR35 10
C_DL14 ICT197 5 4 DL14
C_DL11 ICT194 6 3 DL11
C_DL16 ICT199 7 2 DL16
C_DL13 ICT196 8 1 DL13
BR40 10
C_DL26 ICT210 1 8 DL26
C_DL6 ICT219 2 7 DL6
C_DL23 ICT207 3 6 DL23
C_DL28 ICT212 4 5 DL28
BR36 10
C_DL31 ICT216 1 8 DL31
C_DL25 ICT209 2 7 DL25
C_DL8 ICT221 3 6 DL8
C_DL24 ICT208 4 5 DL24

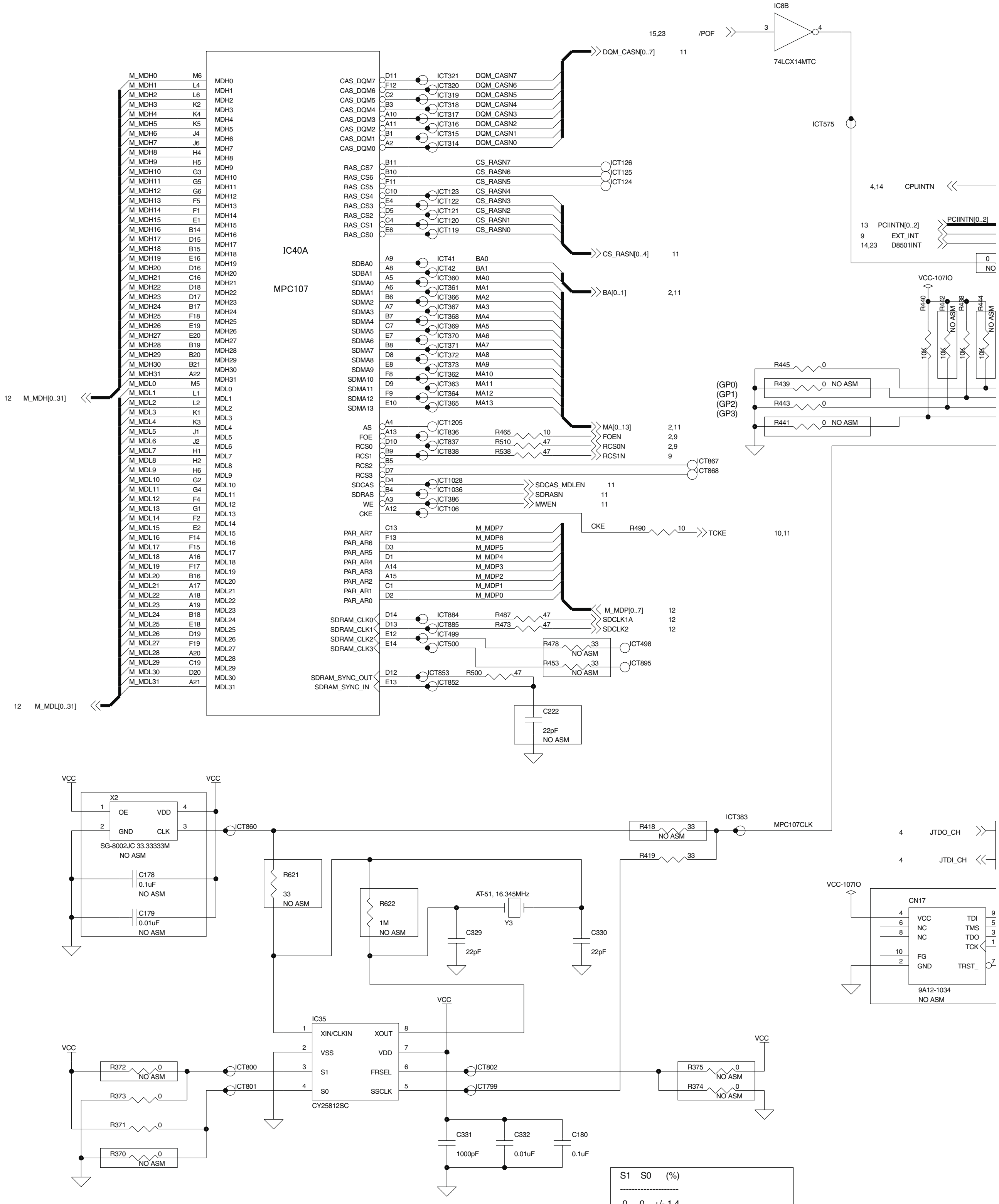
PRINT CONTROL PWB (MPC107-1(PCI/60X))



IC40B
MPC107
M_AD31 ... M_AD0
AD31 ... AD0
M_AD[0..31]
R410 0 ICT507
L25 IDSEL
M_C_BEN0 M_C_BEN1 M_C_BEN2 M_C_BEN3
CBE0 CBE1 CBE2 CBE3
M_C_BEN[0..3]
FRAME DEVSEL IRDY TRDY LOCK PAR STOP PERR SERR
ICT649 ICT650 ICT651 ICT652 ICT653 ICT654 ICT655 ICT656 ICT657
R392 R391 R388 R411 R415 R413 R412 R389 R414 10
FRAMEN DEVSELN IRDYN TRDYN LOCKN PAR STOPN PERRN SERRN 13
4,14,23
14,23
4,14,16,23
4,14
INTA V21 ICT903
REQ0 REQ1 REQ2 REQ3 REQ4
ICT907 R409 0
PCI_BRN0_107 PCI_BRN1_107 PCI_BRN2_107 13,16
PCI_BRN3 PCI_BRN4 ICT931 ICT932
GNT0 GNT1 GNT2 GNT3 GNT4
ICT710 R408 22
PCI_BGN0_107 PCI_BGN1_107 PCI_BGN2_107 13,16
PCI_BGN3 ICT923
PCI_BGN4 14
PCI_CLK0 PCI_CLK1 PCI_CLK2 PCI_CLK3 PCI_CLK4
ICT904 ICT495 ICT496 ICT497 ICT906
R401 22 ICT501
R427 R426 R428 22
PCICLK1 PCICLK2 PCICLK3 13
5,14,23
R403 22 NO ASM
ICT912 PCICLK4 16
PCI_SYNC_OUT PCI_SYNC_IN
ICT905 ICT902 R402 22
C187 C186 C188
22pF NO ASM
VCC
13 PAR R390 10K
13,16 PCI_BRN0 ICT925 R420 10K
13,16 PCI_BRN2 ICT929
PCI_BRN3
PCI_BRN4
13,16 PCI_BRN1 ICT927
BR82 10K
13 AD[0..31]
M_AD[0..31]
BR89 10 ICT410 ICT399 ICT388 ICT387
BR90 10 ICT413 ICT415 ICT414 ICT416
BR88 10 ICT417 ICT389 ICT418 ICT390
BR87 10 ICT392 ICT393 ICT394 ICT391
BR86 10 ICT395 ICT396 ICT398 ICT397
BR85 10 ICT402 ICT401 ICT403 ICT400
BR84 10 ICT405 ICT406 ICT407 ICT404
BR83 10 ICT408 ICT409 ICT411 ICT412
M_AD28 M_AD29 M_AD30 M_AD31
AD28 AD29 AD30 AD31
BR80 10 ICT419 ICT420 ICT421 ICT422
A B C
1 2 3 4

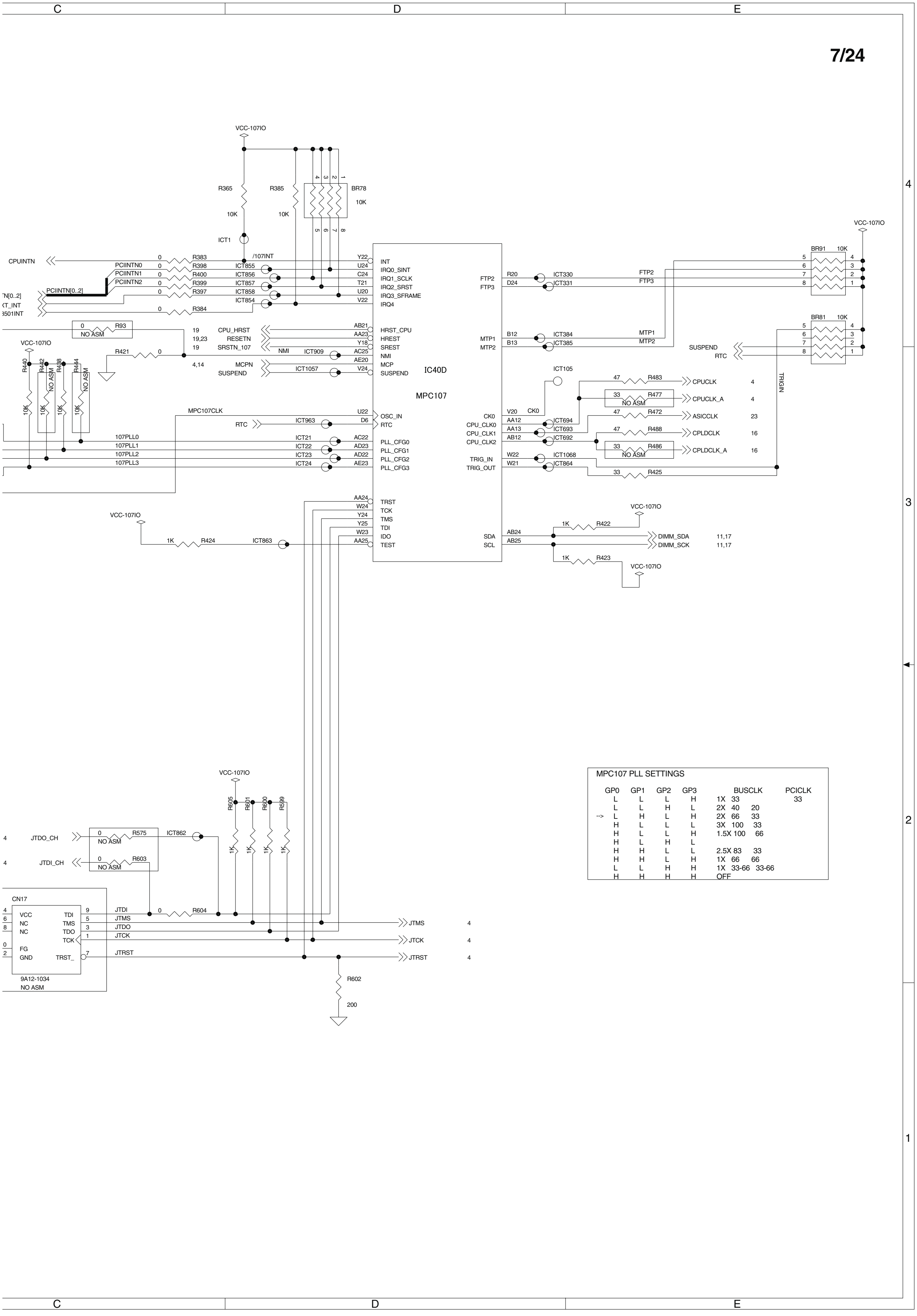

C
D
E
4
3
2
1
VCC
R452 1K
LBCLAIMZ 14,23
C208 10pF NO ASM
4,14,23 DBG0N
14,23 DBG1N
4,14,16,23 TAN
4,14 CIN
R507 10 ICT610 AC10
R504 10 ICT611 AD10
R455 10 ICT625 AE14
AD16
IC40E
MPC107
DBG0
DBG1
TA
CI
DH0 … DH31
DL0 … DL31
GBL AD17 GBLN 4,14,23
TS AA10 TSN 4,14,16,23
DBGLB AB10 DBGLBZ 14,23
TEA AB11 ICT626 R501 10 TEAN 4,14
TBST AE21 TBSTN 4,14,23
AACK AC7 ICT612 R513 10 AACKN 4,14,16,23
WT AC16 WTN 4,14
ARTRY Y7 ARTRYN 4,14,16,23
LBCLAIM Y17
BR0 AB17 BR0N 4,14,16
BG0 AE11 ICT607
BR1 Y14 BR1N 14,16,23,24
BG1 AD11 ICT608
R464 10 NO ASM BG0N_107 16
R467 10 BG0N 4,14
R499 10 BG1N 14,23
R489 10 NO ASM BG1N_107 16
TSIZ0 AE19, TSIZ1 AD18, TSIZ2 AB18
TSIZ[0..2] 4,14,23
TT0 AD19, TT1 AC19, TT2 AB19, TT3 AA19, TT4 AA18
TT[0..4] 4,14,23
A0–A31 CA0–CA31
CA[0..31] 4,5,14,23
DP0 AE9, DP1 AD6, DP2 AD8, DP3 AD1, DP4 AE8, DP5 AD7, DP6 AD4, DP7 AE5
DP[0..7] 5
QREQ M4 QREQN 4,19,23
QACK AE18 QACKN 19
DH[0..31] 5,14,23
DL[0..31] 5,14,23
16
6
13
BR83 10
AD28 AD29 AD30 AD31
AD[0..31] 13
BR80 10
C_BEN0 C_BEN1 C_BEN2 C_BEN3
C_BEN[0..3] 13

PRINT CONTROL PWB (MPC107-2(MEMORY INTERFACE / PLL) / JTAG)



IC8B
74LCX14MTC
15,23 /POF
DQM_CASN[0..7] 11
ICT575
IC40A
MPC107
M_MDH0 … M_MDH31
M_MDL0 … M_MDL31
MDH0 … MDH31
MDL0 … MDL31
12 M_MDH[0..31]
12 M_MDL[0..31]
CAS_DQM7 … CAS_DQM0
DQM_CASN7 … DQM_CASN0
ICT321 ICT320 ICT319 ICT318 ICT317 ICT316 ICT315 ICT314
RAS_CS7 … RAS_CS0
CS_RASN7 … CS_RASN0
ICT126 ICT125 ICT124
ICT123 ICT122 ICT121 ICT119
CS_RASN[0..4] 11
4,14 CPUINTN
13 PCIINTN[0..2]
9 EXT_INT
14,23 D8501INT
PCIINTN[0..2]
SDBA0 SDBA1 SDMA0 … SDMA13
BA0 BA1 MA0 … MA13
ICT41 ICT42 ICT360 ICT361 ICT366 ICT367 ICT368 ICT369 ICT370 ICT371 ICT372 ICT373 ICT362 ICT363 ICT364 ICT365
BA[0..1] 2,11
MA[0..13] 2,11
VCC-107IO
R440 R442 R438 R444 10K NO ASM
R445 0
R439 0 NO ASM
R443 0
R441 0 NO ASM
(GP0) (GP1) (GP2) (GP3)
AS FOE RCS0 RCS1 RCS2 RCS3 SDCAS SDRAS WE CKE
ICT1205 ICT836 ICT837 ICT838
R465 10 R510 47 R538 47
FOEN 2,9
RCS0N 2,9
RCS1N 9
ICT867 ICT868
ICT1028 ICT1036 ICT386 ICT106
SDCAS_MDLEN 11
SDRASN 11
MWEN 11
CKE R490 10 TCKE 10,11
PAR_AR7 … PAR_AR0
M_MDP7 … M_MDP0
M_MDP[0..7] 12
SDRAM_CLK0 SDRAM_CLK1 SDRAM_CLK2 SDRAM_CLK3
ICT884 ICT885 ICT499 ICT500
R487 47 R473 47
SDCLK1A 12
SDCLK2 12
R478 33 NO ASM ICT498
R453 33 NO ASM ICT895
SDRAM_SYNC_OUT SDRAM_SYNC_IN
ICT853 ICT852 R500 47
C222 22pF NO ASM
VCC
X2 OE VDD GND CLK
SG-8002JC 33.33333M NO ASM
C178 0.1uF NO ASM
C179 0.01uF NO ASM
ICT860
R621 33 NO ASM
R622 1M NO ASM
AT-51, 16.345MHz Y3
C329 22pF
C330 22pF
R418 33 NO ASM
R419 33
ICT383
MPC107CLK
4 JTDO_CH
4 JTDI_CH
CN17 VCC NC NC FG GND TDI TMS TDO TCK TRST_
9A12-1034 NO ASM
IC35 XIN/CLKIN XOUT VSS VDD S1 FRSEL S0 SSCLK
CY25812SC
R372 0 NO ASM
R373 0
R371 0
R370 0 NO ASM
ICT800 ICT801 ICT802 ICT799
R375 0 NO ASM
R374 0 NO ASM
C331 1000pF
C332 0.01uF
C180 0.1uF

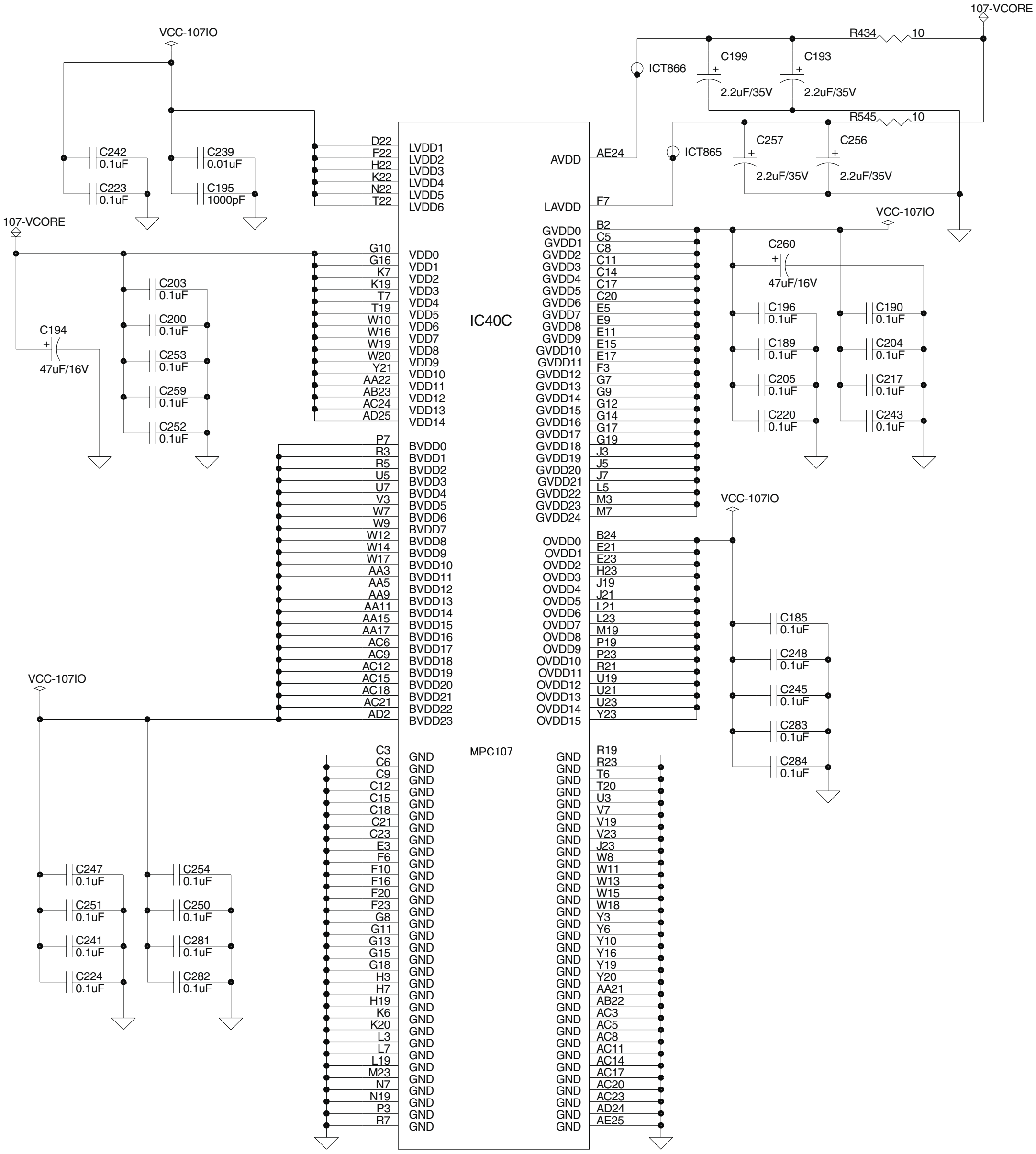
S1	S0	(%)
0	0	+/- 1.4
0	M	+/- 1.2
0	1	+/- 0.6 <--
M	0	+/- 0.5
1	1	- 3.0
1	0	- 2.2
M	1	- 1.9
1	M	- 0.7
M	M	0


C
D
E
4
3
2
1
VCC-107IO
R365
10K
R385
10K
BR78
10K
ICT1
CPUINTN
PCIINTN0
PCIINTN1
PCIINTN2
PCIINTN[0..2]
/107INT
R383
R398
R400
R399
R397
R384
ICT855
ICT856
ICT857
ICT858
ICT854
R93
NO ASM
R421
CPU_HRST
RESETN
SRSTN_107
NMI
ICT909
MCPN
SUSPEND
ICT1057
R440
R442
R438
R444
MPC107CLK
RTC
ICT963
107PLL0
107PLL1
107PLL2
107PLL3
ICT21
ICT22
ICT23
ICT24
IC40D
MPC107
INT
IRQ0_SINT
IRQ1_SCLK
IRQ2_SRST
IRQ3_SFRAME
IRQ4
HRST_CPU
HREST
SREST
NMI
MCP
OSC_IN
PLL_CFG0
PLL_CFG1
PLL_CFG2
PLL_CFG3
TRST
TCK
TMS
TDI
IDO
TEST
FTP2
FTP3
MTP1
MTP2
CK0
CPU_CLK0
CPU_CLK1
CPU_CLK2
TRIG_IN
TRIG_OUT
SDA
SCL
ICT330
ICT331
ICT384
ICT385
ICT105
ICT694
ICT693
ICT692
ICT1068
ICT864
BR91
BR81
R483
R477
R472
R488
R486
R425
CPUCLK
CPUCLK_A
ASICCLK
CPLDCLK
CPLDCLK_A
TRIGIN
R422
R423
DIMM_SDA
DIMM_SCK
R424
ICT863
R605
R601
R600
R599
JTDO_CH
JTDI_CH
R575
R603
ICT862
CN17
VCC
NC
FG
GND
TDI
TMS
TDO
TCK
TRST_
9A12-1034
JTDI
JTMS
JTDO
JTCK
JTRST
R604
R602
200

MPC107 PLL SETTINGS

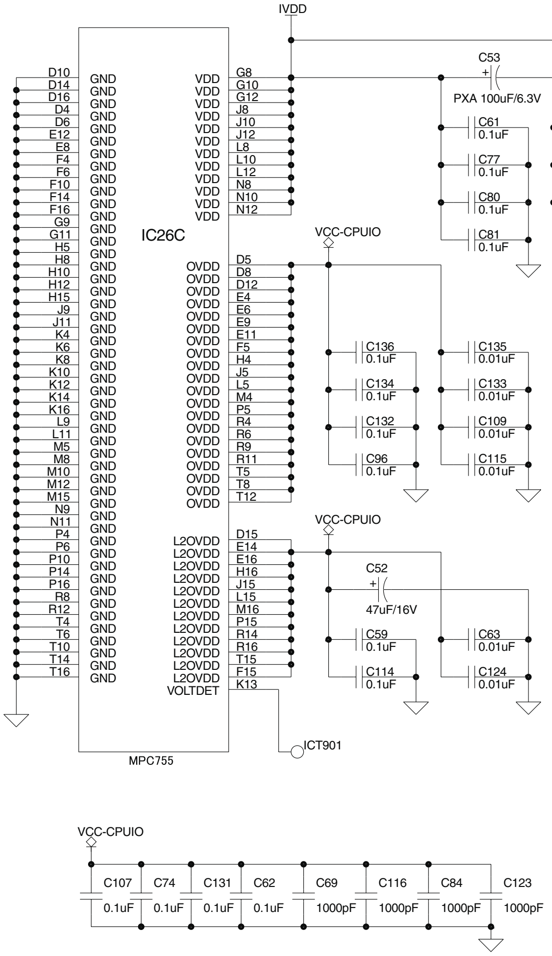
	GP0	GP1	GP2	GP3	BUSCLK		PCICLK
	L	L	L	H	1X 33		33
	L	L	H	L	2X 40	20	
-->	L	H	L	H	2X 66	33	
	H	L	L	L	3X 100	33	
	H	L	L	H	1.5X 100	66	
	H	L	H	L			
	H	H	L	L	2.5X 83	33	
	H	H	L	H	1X 66	66	
	L	L	H	H	1X 33-66	33-66	
	H	H	H	H	OFF		

PRINT CONTROL PWB (CAP(XPC755 / MPC107))


A
B
C
D
VCC-107IO
107-VCORE
R434 10
C199 2.2uF/35V
C193 2.2uF/35V
ICT866
R545 10
ICT865
C257 2.2uF/35V
C256 2.2uF/35V
C242 0.1uF
C223 0.1uF
C239 0.01uF
C195 1000pF
D22 F22 H22 K22 N22 T22
LVDD1 LVDD2 LVDD3 LVDD4 LVDD5 LVDD6
AVDD AE24
LAVDD F7
107-VCORE
G10 G16 K7 K19 T7 T19 W10 W16 W19 W20 Y21 AA22 AB23 AC24 AD25
VDD0 VDD1 VDD2 VDD3 VDD4 VDD5 VDD6 VDD7 VDD8 VDD9 VDD10 VDD11 VDD12 VDD13 VDD14
C203 0.1uF
C200 0.1uF
C253 0.1uF
C259 0.1uF
C252 0.1uF
C194 47uF/16V
IC40C
GVDD0 GVDD1 GVDD2 GVDD3 GVDD4 GVDD5 GVDD6 GVDD7 GVDD8 GVDD9 GVDD10 GVDD11 GVDD12 GVDD13 GVDD14 GVDD15 GVDD16 GVDD17 GVDD18 GVDD19 GVDD20 GVDD21 GVDD22 GVDD23 GVDD24
B2 C5 C8 C11 C14 C17 C20 E5 E9 E11 E15 E17 F3 G7 G9 G12 G14 G17 G19 J3 J5 J7 L5 M3 M7
VCC-107IO
C260 47uF/16V
C196 0.1uF
C189 0.1uF
C205 0.1uF
C220 0.1uF
C190 0.1uF
C204 0.1uF
C217 0.1uF
C243 0.1uF
P7 R3 R5 U5 U7 V3 W7 W9 W12 W14 W17 AA3 AA5 AA9 AA11 AA15 AA17 AC6 AC9 AC12 AC15 AC18 AC21 AD2
BVDD0 BVDD1 BVDD2 BVDD3 BVDD4 BVDD5 BVDD6 BVDD7 BVDD8 BVDD9 BVDD10 BVDD11 BVDD12 BVDD13 BVDD14 BVDD15 BVDD16 BVDD17 BVDD18 BVDD19 BVDD20 BVDD21 BVDD22 BVDD23
OVDD0 OVDD1 OVDD2 OVDD3 OVDD4 OVDD5 OVDD6 OVDD7 OVDD8 OVDD9 OVDD10 OVDD11 OVDD12 OVDD13 OVDD14 OVDD15
B24 E21 E23 H23 J19 J21 L21 L23 M19 P19 P23 R21 U19 U21 U23 Y23
VCC-107IO
C185 0.1uF
C248 0.1uF
C245 0.1uF
C283 0.1uF
C284 0.1uF
VCC-107IO
MPC107
C3 C6 C9 C12 C15 C18 C21 C23 E3 F6 F10 F16 F20 F23 G8 G11 G13 G15 G18 H3 H7 H19 K6 K20 L3 L7 L19 M23 N7 N19 P3 R7
GND
R19 R23 T6 T20 U3 V7 V19 V23 J23 W8 W11 W13 W15 W18 Y3 Y6 Y10 Y16 Y19 Y20 AA21 AB22 AC3 AC5 AC8 AC11 AC14 AC17 AC20 AC23 AD24 AE25
C247 0.1uF
C251 0.1uF
C241 0.1uF
C224 0.1uF
C254 0.1uF
C250 0.1uF
C281 0.1uF
C282 0.1uF

CORE

A

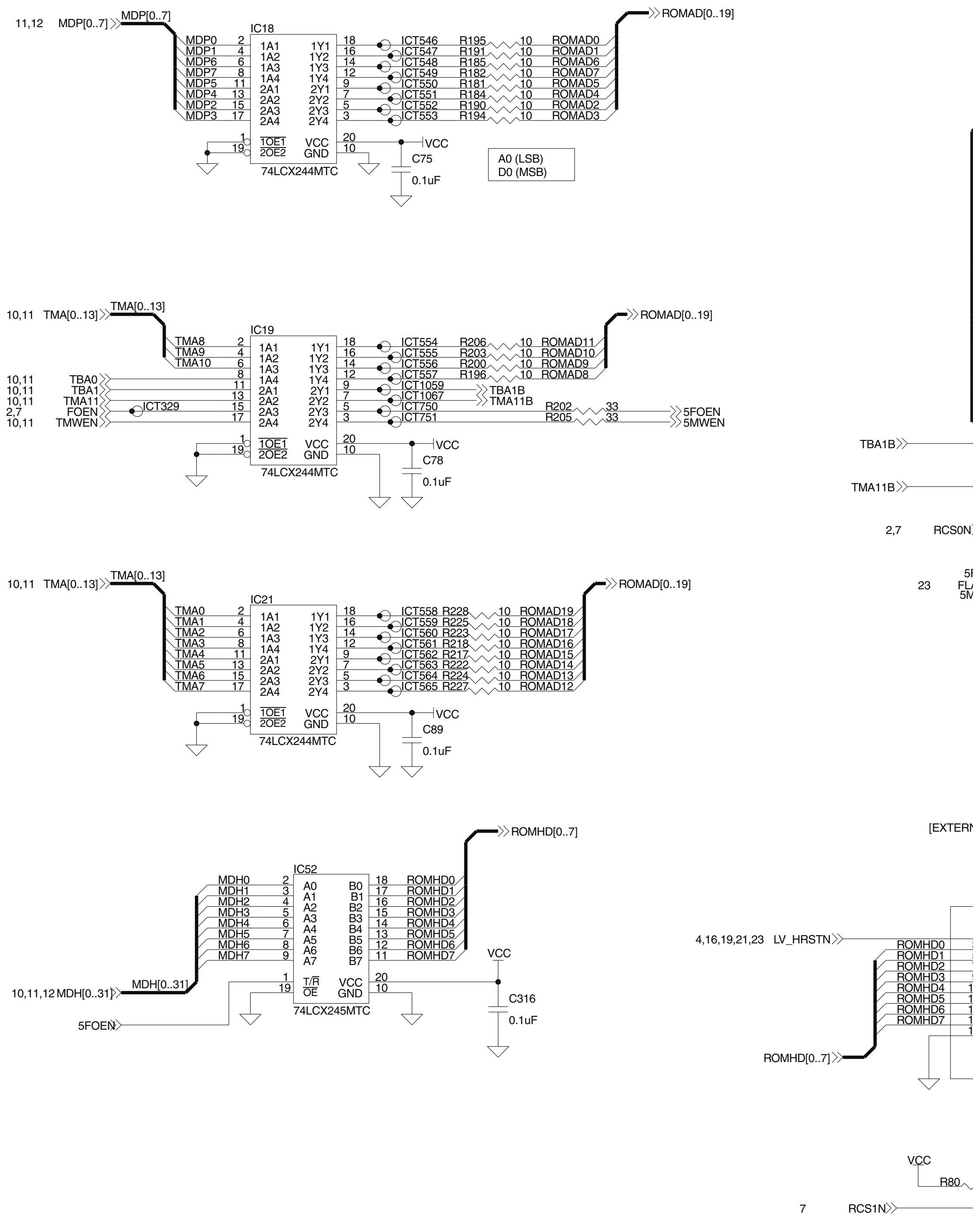

IVDD
IC26C
MPC755
D10 D14 D16 D4 D6 E12 E8 F4 F6 F10 F14 F16 G9 G11 H5 H8 H10 H12 H15 J9 J11 K4 K6 K8 K10 K12 K14 K16 L9 L11 M5 M8 M10 M12 M15 N9 N11 P4 P6 P10 P14 P16 R8 R12 T4 T6 T10 T14 T16
GND
VDD
G8 G10 G12 J8 J10 J12 L8 L10 L12 N8 N10 N12
OVDD
D5 D8 D12 E4 E6 E9 E11 F5 H4 J5 L5 M4 P5 R4 R6 R9 R11 T5 T8 T12
L2OVDD
D15 E14 E16 H16 J15 L15 M16 P15 R14 R16 T15 F15
VOLTDET
K13
ICT901
C53
+
PXA 100uF/6.3V
C61 0.1uF
C77 0.1uF
C80 0.1uF
C81 0.1uF
C60 0.01uF
C76 0.01uF
C83 0.01uF
C82 0.01uF
VCC-CPUIO
C136 0.1uF
C134 0.1uF
C132 0.1uF
C96 0.1uF
C135 0.01uF
C133 0.01uF
C109 0.01uF
C115 0.01uF
VCC-CPUIO
C52
+
47uF/16V
C59 0.1uF
C114 0.1uF
C63 0.01uF
C124 0.01uF
VCC-CPUIO
C107 0.1uF
C74 0.1uF
C131 0.1uF
C62 0.1uF
C69 1000pF
C116 1000pF
C84 1000pF
C123 1000pF

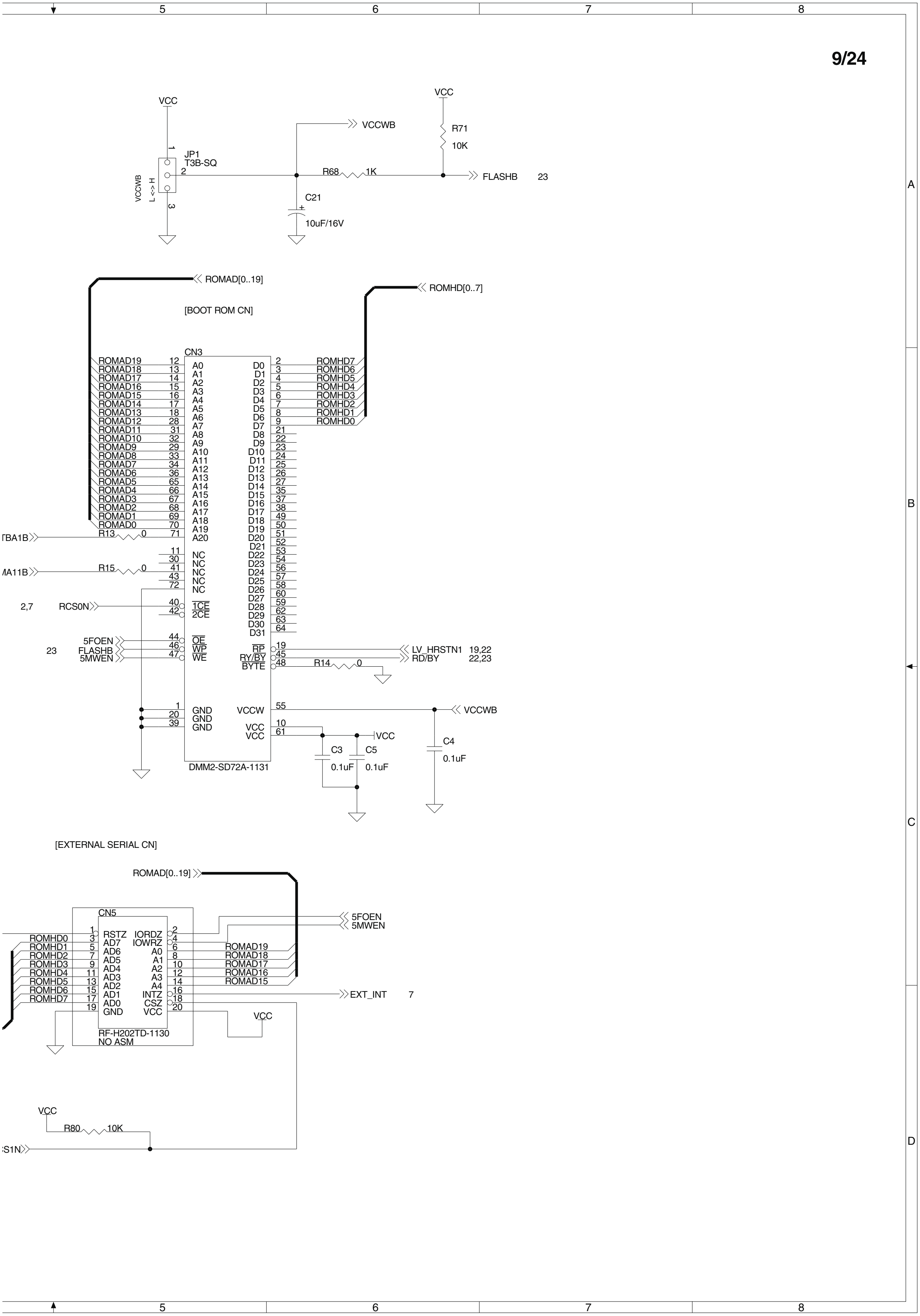
B

C

D

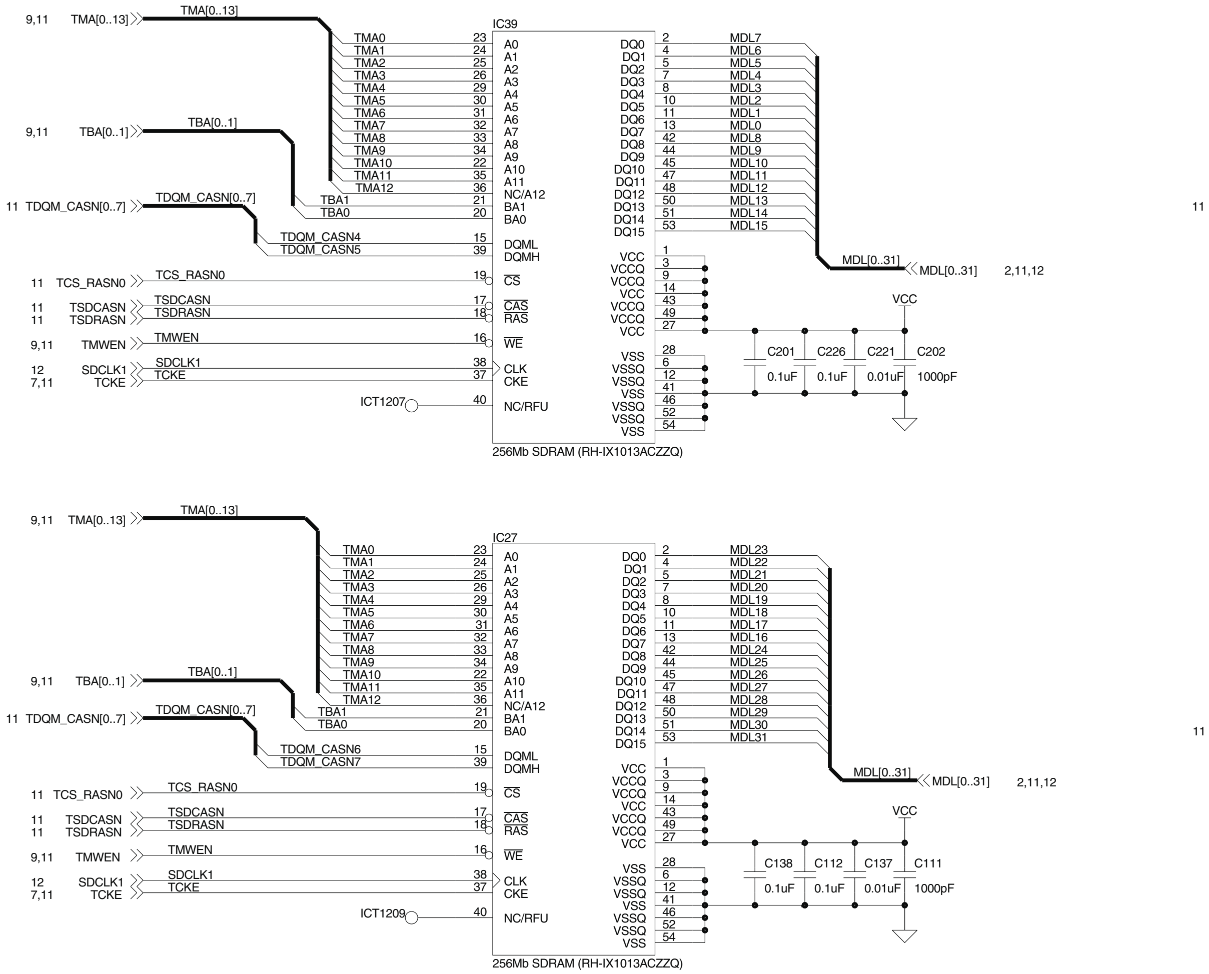
PRINT CONTROL PWB (BOOT ROM / BUFFER)


11,12 MDP[0..7]
MDP[0..7]
IC18
MDP0 MDP1 MDP6 MDP7 MDP5 MDP4 MDP2 MDP3
1A1 1A2 1A3 1A4 2A1 2A2 2A3 2A4
1Y1 1Y2 1Y3 1Y4 2Y1 2Y2 2Y3 2Y4
ICT546 ICT547 ICT548 ICT549 ICT550 ICT551 ICT552 ICT553
R195 R191 R185 R182 R181 R184 R190 R194
10
ROMAD0 ROMAD1 ROMAD6 ROMAD7 ROMAD5 ROMAD4 ROMAD2 ROMAD3
ROMAD[0..19]
1OE1 2OE2 VCC GND
VCC
C75
0.1uF
74LCX244MTC
A0 (LSB)
D0 (MSB)
10,11 TMA[0..13]
TMA[0..13]
IC19
TMA8 TMA9 TMA10
10,11 TBA0
10,11 TBA1
10,11 TMA11
2,7 FOEN
10,11 TMWEN
ICT329
ICT554 ICT555 ICT556 ICT557 ICT1059 ICT1067 ICT750 ICT751
R206 R203 R200 R196
ROMAD11 ROMAD10 ROMAD9 ROMAD8
TBA1B
TMA11B
R202 33 5FOEN
R205 33 5MWEN
C78
0.1uF
74LCX244MTC
TBA1B
TMA11B
2,7 RCS0N
23
IC21
TMA0 TMA1 TMA2 TMA3 TMA4 TMA5 TMA6 TMA7
ICT558 R228 ICT559 R225 ICT560 R223 ICT561 R218 ICT562 R217 ICT563 R222 ICT564 R224 ICT565 R227
ROMAD19 ROMAD18 ROMAD17 ROMAD16 ROMAD15 ROMAD14 ROMAD13 ROMAD12
C89
0.1uF
74LCX244MTC
[EXTERN
IC52
MDH0 MDH1 MDH2 MDH3 MDH4 MDH5 MDH6 MDH7
A0 A1 A2 A3 A4 A5 A6 A7
B0 B1 B2 B3 B4 B5 B6 B7
ROMHD0 ROMHD1 ROMHD2 ROMHD3 ROMHD4 ROMHD5 ROMHD6 ROMHD7
ROMHD[0..7]
T/R OE VCC GND
VCC
C316
0.1uF
74LCX245MTC
10,11,12 MDH[0..31]
MDH[0..31]
5FOEN
4,16,19,21,23 LV_HRSTN
ROMHD[0..7]
VCC
R80
7 RCS1N

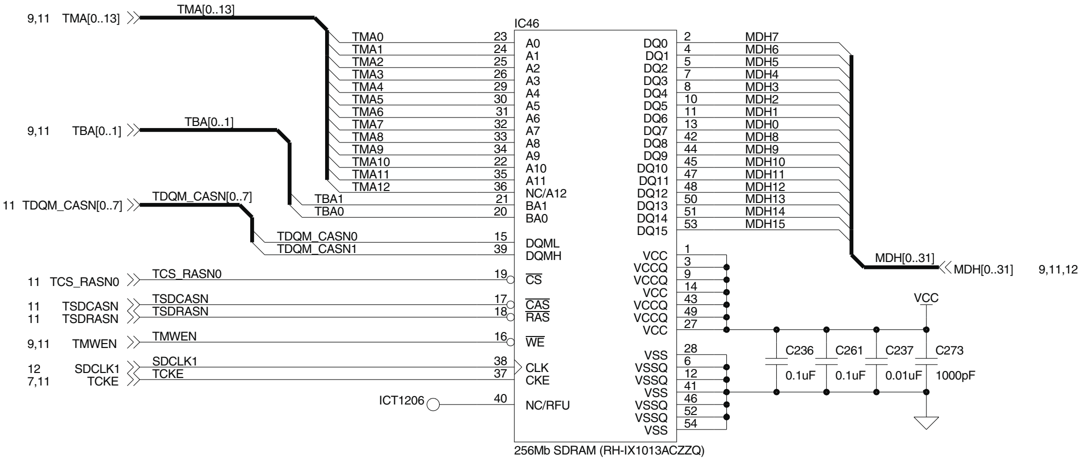

9/24
VCC
JP1
T3B-SQ
VCCWB
L <-> H
VCCWB
R68
1K
R71
10K
FLASHB 23
C21
10uF/16V
ROMAD[0..19]
[BOOT ROM CN]
ROMHD[0..7]
CN3
DMM2-SD72A-1131
ROMAD19 … ROMAD0
A0 … A20
D0 … D31
ROMHD7 … ROMHD0
TBA1B
R13 0
MA11B
R15 0
NC
2,7 RCS0N
1CE
2CE
5FOEN
23 FLASHB
5MWEN
OE
WP
WE
RP
RY/BY
BYTE
LV_HRSTN1 19,22
RD/BY 22,23
R14 0
GND
VCCW
VCC
VCCWB
C3 0.1uF
C5 0.1uF
C4 0.1uF
[EXTERNAL SERIAL CN]
ROMAD[0..19]
CN5
RF-H202TD-1130
NO ASM
RSTZ
IORDZ
IOWRZ
AD7 … AD0
A0 … A4
INTZ
CSZ
GND
VCC
ROMHD0 … ROMHD7
ROMAD19 … ROMAD15
5FOEN
5MWEN
EXT_INT 7
VCC
R80 10K
S1N
A
B
C
D
5
6
7
8

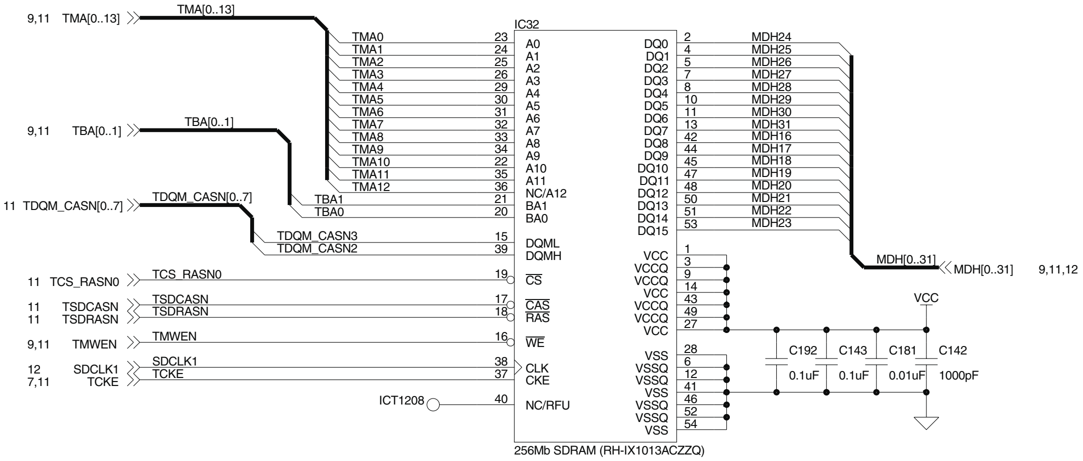
PRINT CONTROL PWB (ON BOARD SDRAM)

256Mbit SDRAM x 4pcs

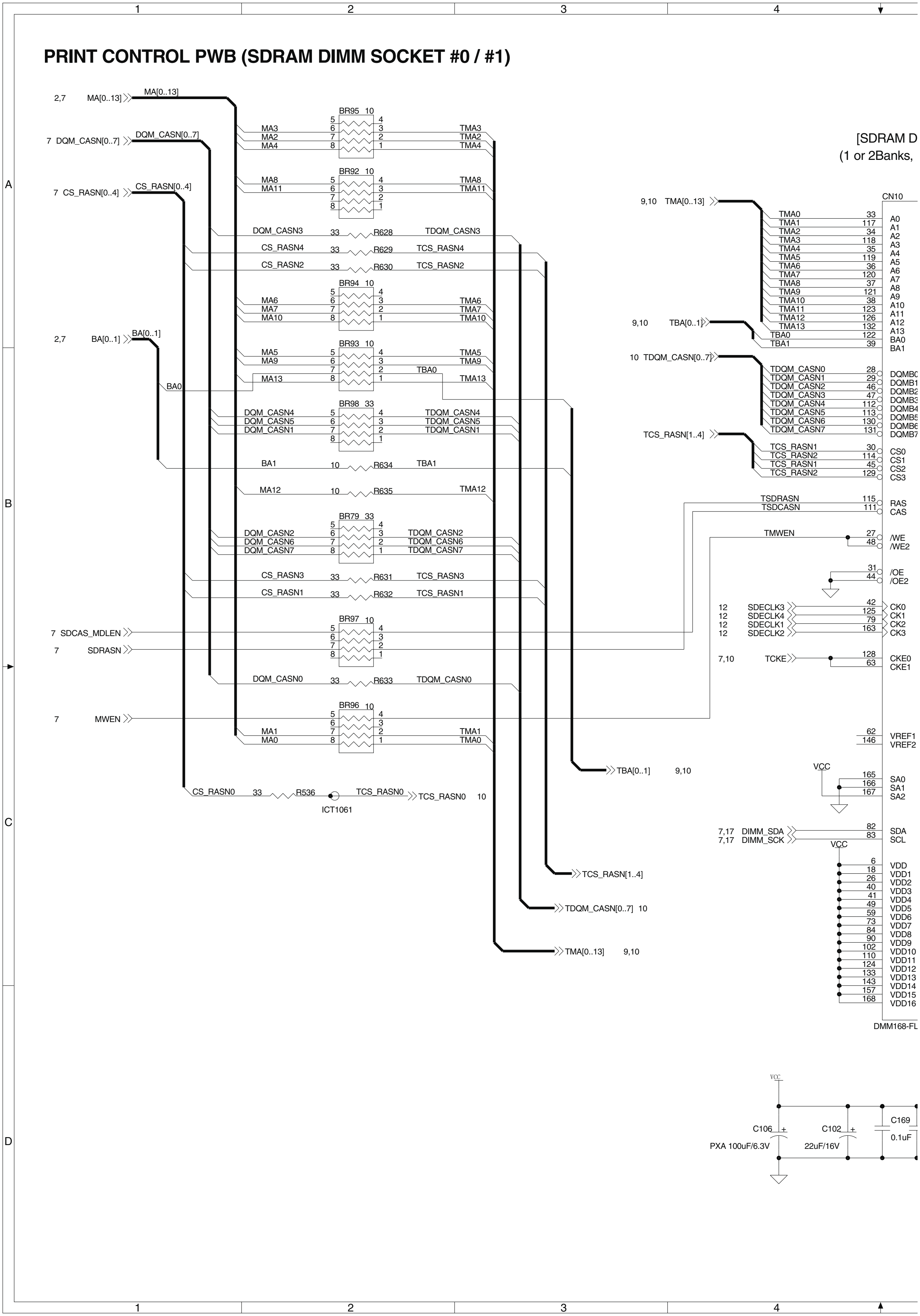

9,11 TMA[0..13]
TMA[0..13]
9,11 TBA[0..1]
TBA[0..1]
11 TDQM_CASN[0..7]
TDQM_CASN[0..7]
11 TCS_RASN0
TCS_RASN0
11 TSDCASN
11 TSDRASN
9,11 TMWEN
12 SDCLK1
7,11 TCKE
ICT1207
IC39
TMA0
TMA1
TMA2
TMA3
TMA4
TMA5
TMA6
TMA7
TMA8
TMA9
TMA10
TMA11
TMA12
TBA1
TBA0
TDQM_CASN4
TDQM_CASN5
A0
A1
A2
A3
A4
A5
A6
A7
A8
A9
A10
A11
NC/A12
BA1
BA0
DQML
DQMH
CS
CAS
RAS
WE
CLK
CKE
NC/RFU
DQ0
DQ1
DQ2
DQ3
DQ4
DQ5
DQ6
DQ7
DQ8
DQ9
DQ10
DQ11
DQ12
DQ13
DQ14
DQ15
VCC
VCCQ
VSS
VSSQ
MDL7
MDL6
MDL5
MDL4
MDL3
MDL2
MDL1
MDL0
MDL8
MDL9
MDL10
MDL11
MDL12
MDL13
MDL14
MDL15
MDL[0..31]
MDL[0..31] 2,11,12
11
VCC
C201 0.1uF
C226 0.1uF
C221 0.01uF
C202 1000pF
256Mb SDRAM (RH-IX1013ACZZQ)
ICT1209
IC27
TDQM_CASN6
TDQM_CASN7
MDL23
MDL22
MDL21
MDL20
MDL19
MDL18
MDL17
MDL16
MDL24
MDL25
MDL26
MDL27
MDL28
MDL29
MDL30
MDL31
C138 0.1uF
C112 0.1uF
C137 0.01uF
C111 1000pF
256Mb SDRAM (RH-IX1013ACZZQ)

4pcs


9,11 TMA[0..13]
TMA[0..13]
9,11 TBA[0..1]
TBA[0..1]
11 TDQM_CASN[0..7]
TDQM_CASN[0..7]
11 TCS_RASN0
TCS_RASN0
11 TSDCASN
11 TSDRASN
TSDCASN
TSDRASN
9,11 TMWEN
TMWEN
12 SDCLK1
7,11 TCKE
SDCLK1
TCKE
ICT1206
IC46
TMA0 23 A0
TMA1 24 A1
TMA2 25 A2
TMA3 26 A3
TMA4 29 A4
TMA5 30 A5
TMA6 31 A6
TMA7 32 A7
TMA8 33 A8
TMA9 34 A9
TMA10 22 A10
TMA11 35 A11
TMA12 36 NC/A12
TBA1 21 BA1
TBA0 20 BA0
TDQM_CASN0 15 DQML
TDQM_CASN1 39 DQMH
19 CS
17 CAS
18 RAS
16 WE
38 CLK
37 CKE
40 NC/RFU
DQ0 2 MDH7
DQ1 4 MDH6
DQ2 5 MDH5
DQ3 7 MDH4
DQ4 8 MDH3
DQ5 10 MDH2
DQ6 11 MDH1
DQ7 13 MDH0
DQ8 42 MDH8
DQ9 44 MDH9
DQ10 45 MDH10
DQ11 47 MDH11
DQ12 48 MDH12
DQ13 50 MDH13
DQ14 51 MDH14
DQ15 53 MDH15
MDH[0..31]
MDH[0..31] 9,11,12
VCC 1
VCCQ 3
VCCQ 9
VCC 14
VCCQ 43
VCCQ 49
VCC 27
VSS 28
VSSQ 6
VSSQ 12
VSS 41
VSSQ 46
VSSQ 52
VSS 54
VCC
C236 0.1uF
C261 0.1uF
C237 0.01uF
C273 1000pF
256Mb SDRAM (RH-IX1013ACZZQ)

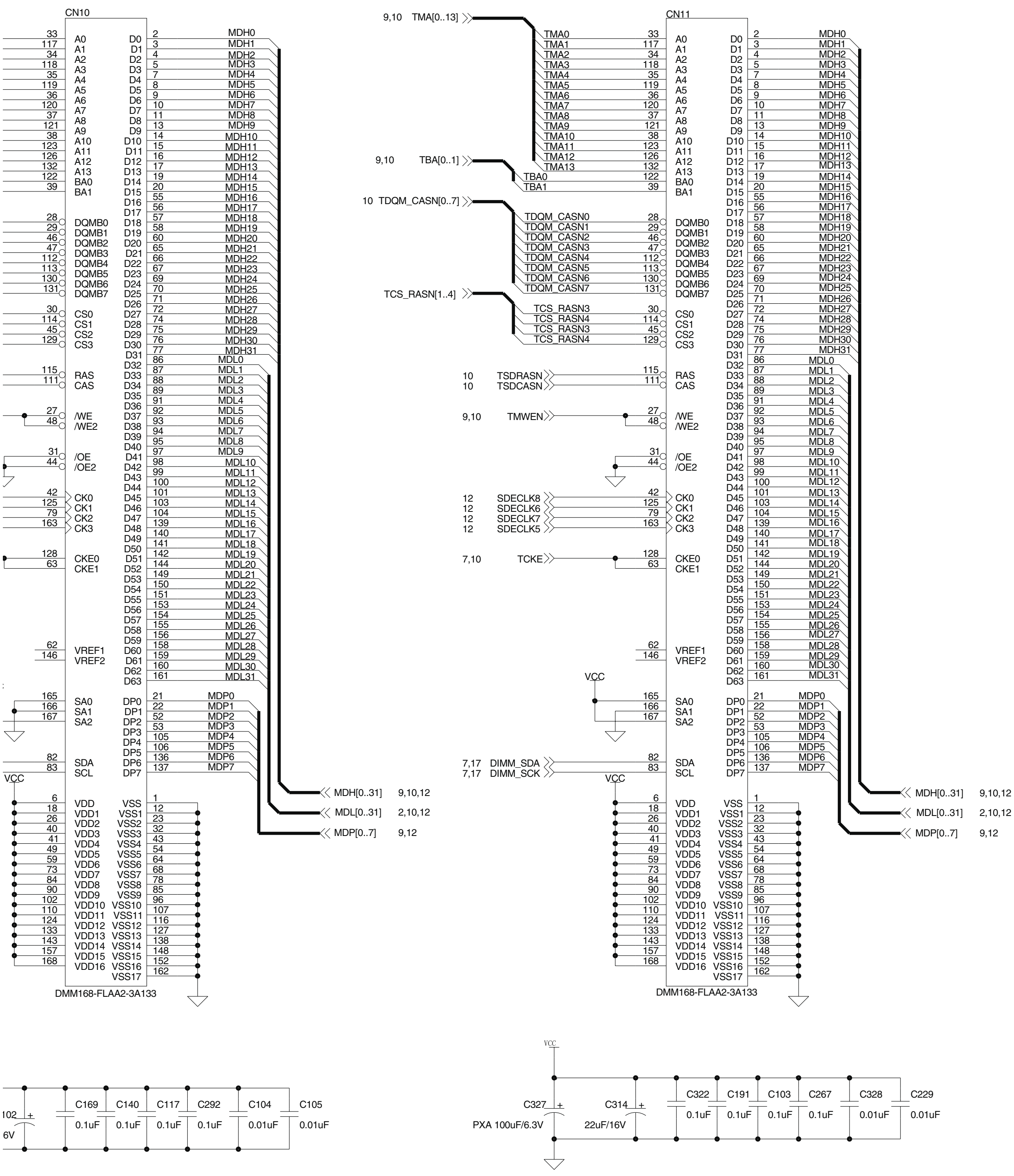

9,11 TMA[0..13]
TMA[0..13]
9,11 TBA[0..1]
TBA[0..1]
11 TDQM_CASN[0..7]
TDQM_CASN[0..7]
11 TCS_RASN0
TCS_RASN0
11 TSDCASN
11 TSDRASN
TSDCASN
TSDRASN
9,11 TMWEN
TMWEN
12 SDCLK1
7,11 TCKE
SDCLK1
TCKE
ICT1208
IC32
TMA0 23 A0
TMA1 24 A1
TMA2 25 A2
TMA3 26 A3
TMA4 29 A4
TMA5 30 A5
TMA6 31 A6
TMA7 32 A7
TMA8 33 A8
TMA9 34 A9
TMA10 22 A10
TMA11 35 A11
TMA12 36 NC/A12
TBA1 21 BA1
TBA0 20 BA0
TDQM_CASN3 15 DQML
TDQM_CASN2 39 DQMH
19 CS
17 CAS
18 RAS
16 WE
38 CLK
37 CKE
40 NC/RFU
DQ0 2 MDH24
DQ1 4 MDH25
DQ2 5 MDH26
DQ3 7 MDH27
DQ4 8 MDH28
DQ5 10 MDH29
DQ6 11 MDH30
DQ7 13 MDH31
DQ8 42 MDH16
DQ9 44 MDH17
DQ10 45 MDH18
DQ11 47 MDH19
DQ12 48 MDH20
DQ13 50 MDH21
DQ14 51 MDH22
DQ15 53 MDH23
MDH[0..31]
MDH[0..31] 9,11,12
VCC 1
VCCQ 3
VCCQ 9
VCC 14
VCCQ 43
VCCQ 49
VCC 27
VSS 28
VSSQ 6
VSSQ 12
VSS 41
VSSQ 46
VSSQ 52
VSS 54
VCC
C192 0.1uF
C143 0.1uF
C181 0.01uF
C142 1000pF
256Mb SDRAM (RH-IX1013ACZZQ)

PRINT CONTROL PWB (SDRAM DIMM SOCKET #0 / #1)

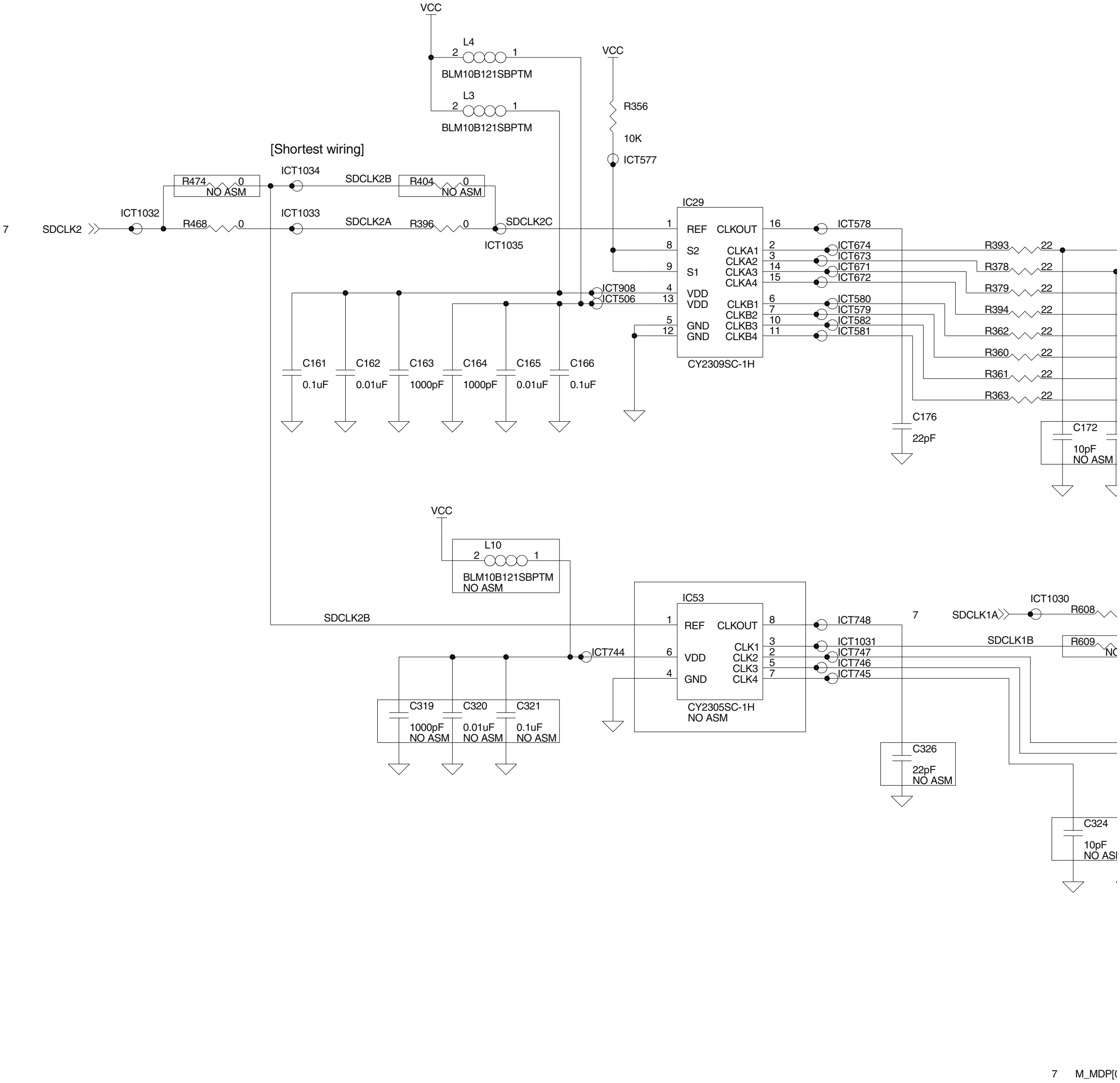

1
2
3
4
A
B
C
D
2,7 MA[0..13]
MA[0..13]
7 DQM_CASN[0..7]
DQM_CASN[0..7]
7 CS_RASN[0..4]
CS_RASN[0..4]
2,7 BA[0..1]
BA[0..1]
BA0
BR95 10
MA3
MA2
MA4
TMA3
TMA2
TMA4
BR92 10
MA8
MA11
TMA8
TMA11
DQM_CASN3 33 R628 TDQM_CASN3
CS_RASN4 33 R629 TCS_RASN4
CS_RASN2 33 R630 TCS_RASN2
BR94 10
MA6
MA7
MA10
TMA6
TMA7
TMA10
BR93 10
MA5
MA9
MA13
TMA5
TMA9
TBA0
TMA13
BR98 33
DQM_CASN4
DQM_CASN5
DQM_CASN1
TDQM_CASN4
TDQM_CASN5
TDQM_CASN1
BA1 10 R634 TBA1
MA12 10 R635 TMA12
BR79 33
DQM_CASN2
DQM_CASN6
DQM_CASN7
TDQM_CASN2
TDQM_CASN6
TDQM_CASN7
CS_RASN3 33 R631 TCS_RASN3
CS_RASN1 33 R632 TCS_RASN1
BR97 10
7 SDCAS_MDLEN
7 SDRASN
DQM_CASN0 33 R633 TDQM_CASN0
BR96 10
7 MWEN
MA1
MA0
TMA1
TMA0
CS_RASN0 33 R536 TCS_RASN0
TCS_RASN0 10
ICT1061
TBA[0..1] 9,10
TCS_RASN[1..4]
TDQM_CASN[0..7] 10
TMA[0..13] 9,10
[SDRAM D
(1 or 2Banks,
CN10
9,10 TMA[0..13]
TMA0 33 A0
TMA1 117 A1
TMA2 34 A2
TMA3 118 A3
TMA4 35 A4
TMA5 119 A5
TMA6 36 A6
TMA7 120 A7
TMA8 37 A8
TMA9 121 A9
TMA10 38 A10
TMA11 123 A11
TMA12 126 A12
TMA13 132 A13
9,10 TBA[0..1]
TBA0 122 BA0
TBA1 39 BA1
10 TDQM_CASN[0..7]
TDQM_CASN0 28 DQMB0
TDQM_CASN1 29 DQMB1
TDQM_CASN2 46 DQMB2
TDQM_CASN3 47 DQMB3
TDQM_CASN4 112 DQMB4
TDQM_CASN5 113 DQMB5
TDQM_CASN6 130 DQMB6
TDQM_CASN7 131 DQMB7
TCS_RASN[1..4]
TCS_RASN1 30 CS0
TCS_RASN2 114 CS1
TCS_RASN1 45 CS2
TCS_RASN2 129 CS3
TSDRASN 115 RAS
TSDCASN 111 CAS
TMWEN 27 /WE
48 /WE2
31 /OE
44 /OE2
12 SDECLK3 42 CK0
12 SDECLK4 125 CK1
12 SDECLK1 79 CK2
12 SDECLK2 163 CK3
7,10 TCKE 128 CKE0
63 CKE1
62 VREF1
146 VREF2
VCC
165 SA0
166 SA1
167 SA2
7,17 DIMM_SDA 82 SDA
7,17 DIMM_SCK 83 SCL
VCC
6 VDD
18 VDD1
26 VDD2
40 VDD3
41 VDD4
49 VDD5
59 VDD6
73 VDD7
84 VDD8
90 VDD9
102 VDD10
110 VDD11
124 VDD12
133 VDD13
143 VDD14
157 VDD15
168 VDD16
DMM168-FL
VCC
C106
PXA 100uF/6.3V
C102
22uF/16V
C169
0.1uF

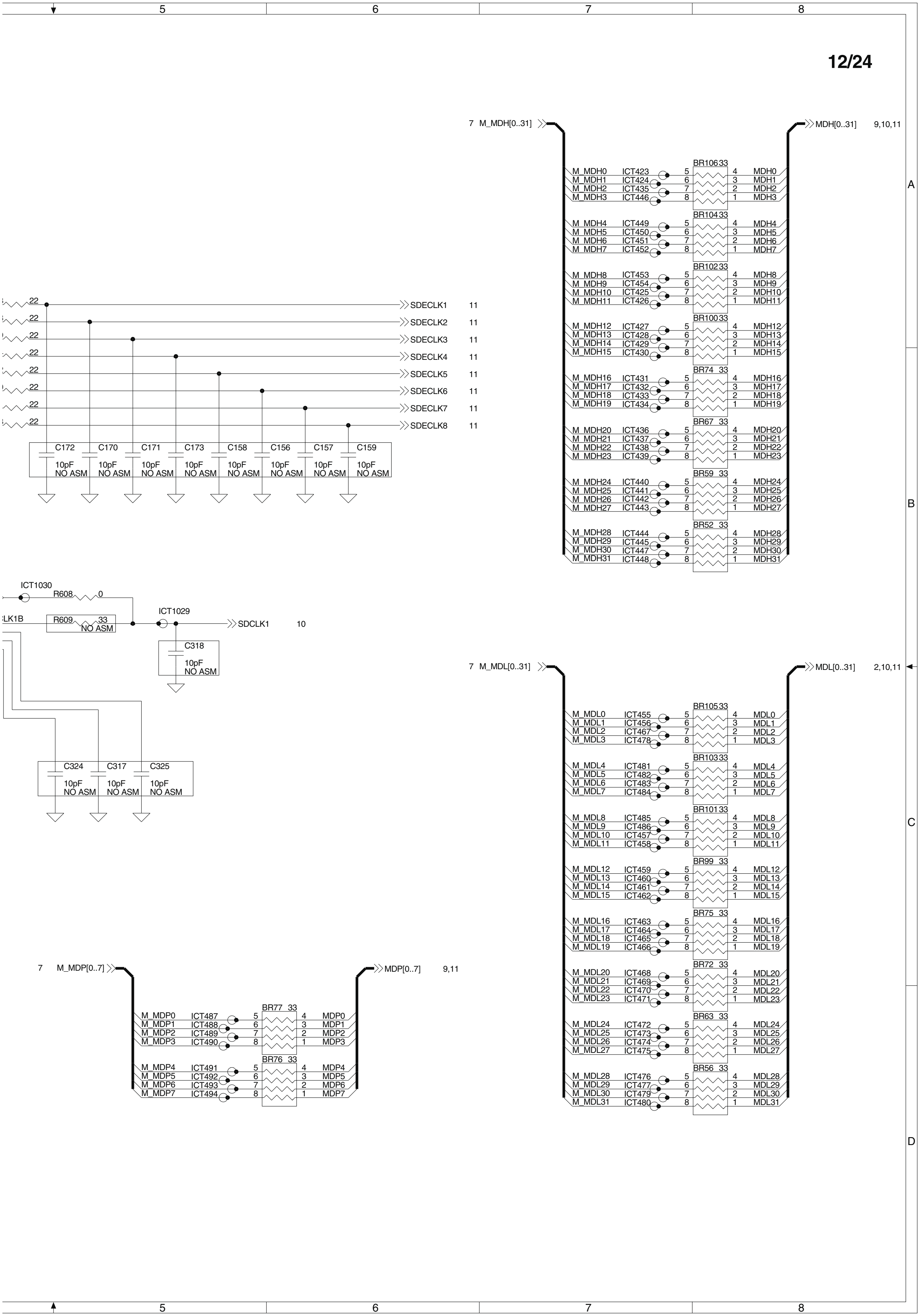
[SDRAM DIMM #0]
(1 or 2Banks, ID=4)

[SDRAM DIMM #1]
(1 or 2Banks, ID=5)

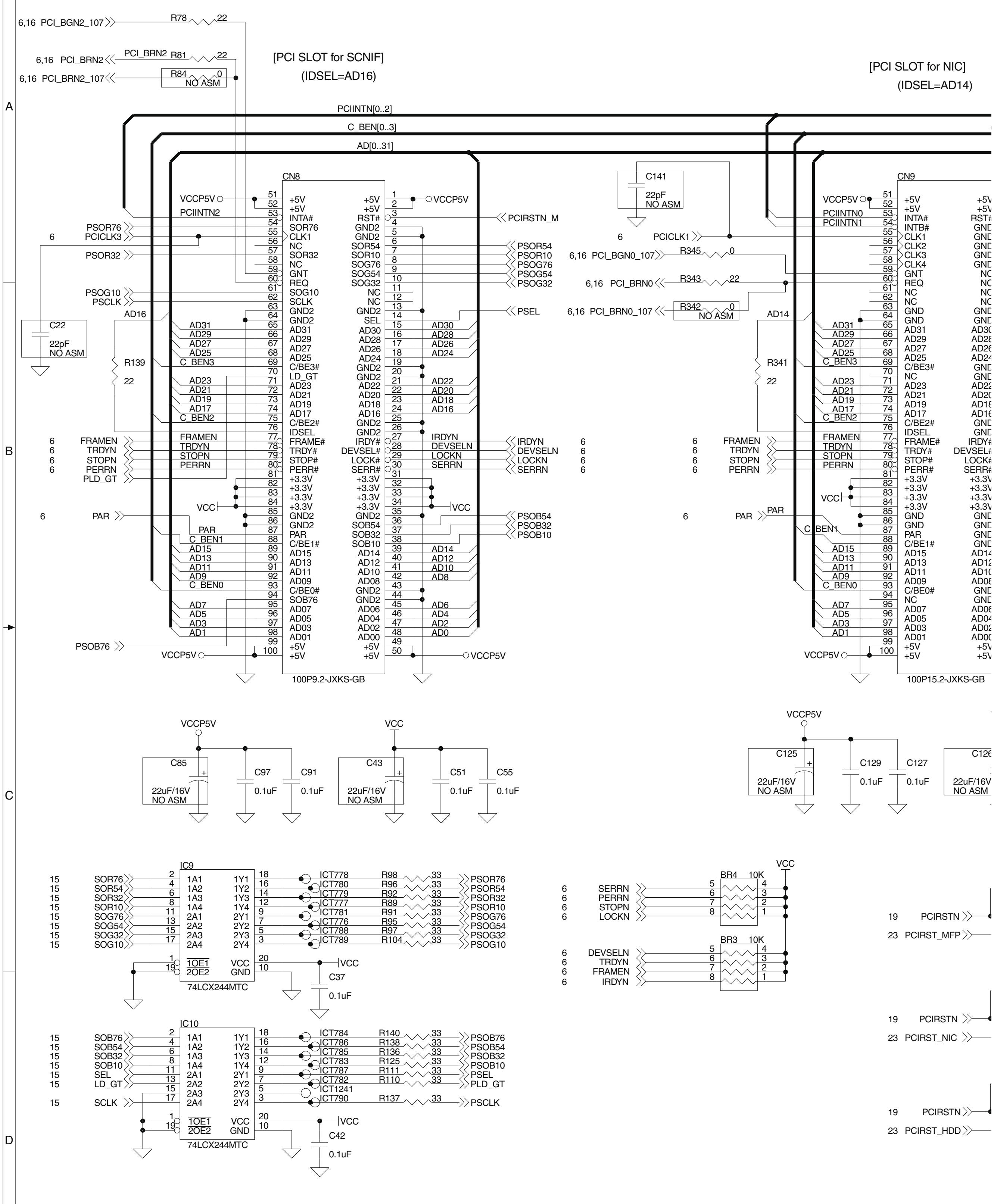

CN10
CN11
DMM168-FLAA2-3A133
9,10 TMA[0..13]
TMA0
TMA13
9,10 TBA[0..1]
TBA0
TBA1
10 TDQM_CASN[0..7]
TDQM_CASN0
TDQM_CASN7
TCS_RASN[1..4]
TCS_RASN3
TCS_RASN4
10 TSDRASN
10 TSDCASN
9,10 TMWEN
12 SDECLK8
12 SDECLK6
12 SDECLK7
12 SDECLK5
7,10 TCKE
7,17 DIMM_SDA
7,17 DIMM_SCK
VCC
MDH0
MDH31
MDL0
MDL31
MDP0
MDP7
MDH[0..31] 9,10,12
MDL[0..31] 2,10,12
MDP[0..7] 9,12
A0
A13
BA0
BA1
DQMB0
DQMB7
CS0
CS1
CS2
CS3
RAS
CAS
/WE
/WE2
/OE
/OE2
CK0
CK1
CK2
CK3
CKE0
CKE1
VREF1
VREF2
SA0
SA1
SA2
SDA
SCL
VDD
VDD16
VSS
VSS17
D0
D63
DP0
DP7
C169 0.1uF
C140 0.1uF
C117 0.1uF
C292 0.1uF
C104 0.01uF
C105 0.01uF
C327 PXA 100uF/6.3V
C314 22uF/16V
C322 0.1uF
C191 0.1uF
C103 0.1uF
C267 0.1uF
C328 0.01uF
C229 0.01uF

PRINT CONTROL PWB (SDRAM CLKDRV / MEMORY DUMP RES.)

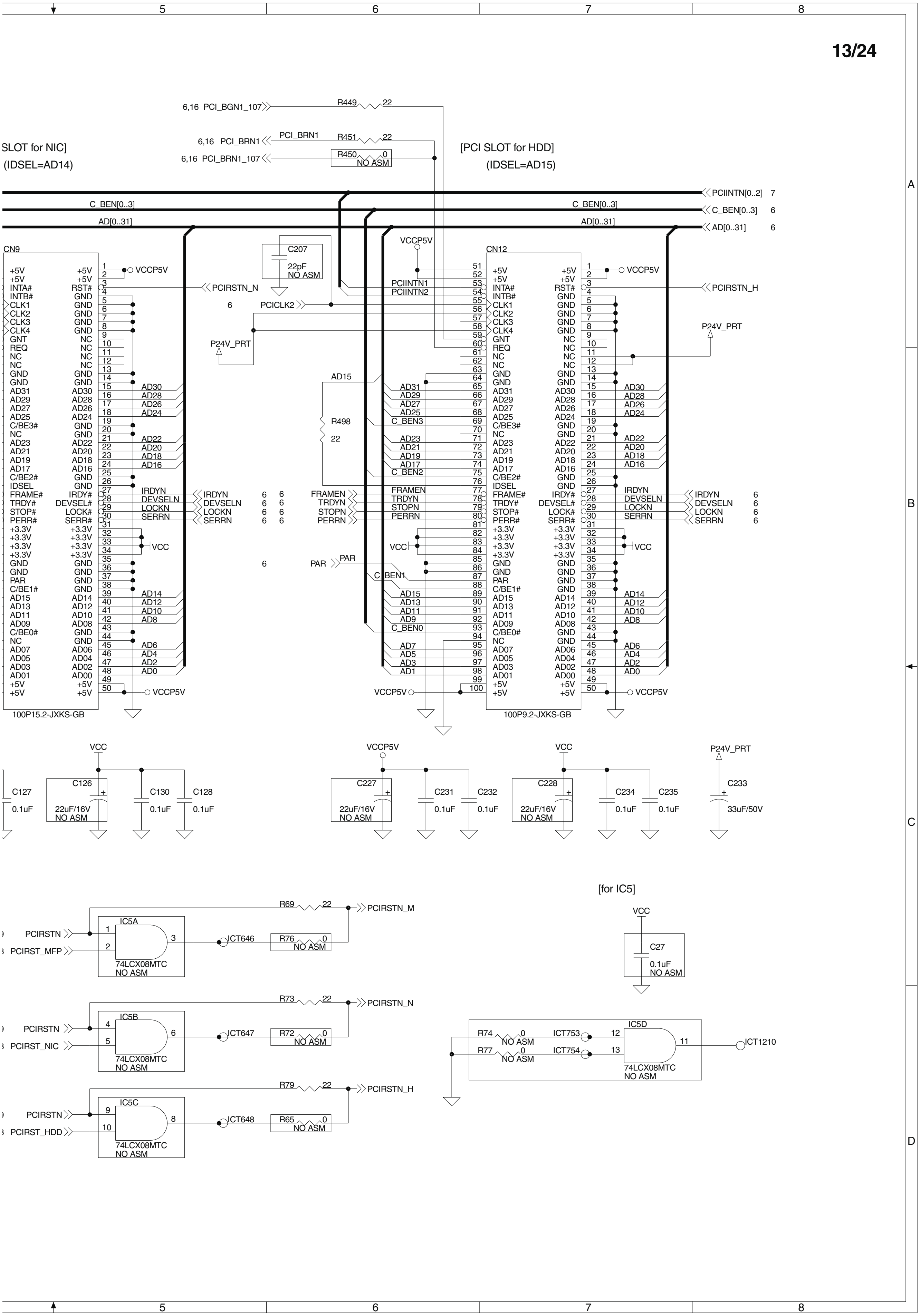

VCC
L4
2
1
BLM10B121SBPTM
L3
BLM10B121SBPTM
VCC
R356
10K
ICT577
[Shortest wiring]
ICT1034
R474
0
NO ASM
SDCLK2B
R404
0
NO ASM
ICT1032
ICT1033
SDCLK2A
R468
0
R396
0
SDCLK2C
ICT1035
7
SDCLK2
IC29
REF
CLKOUT
S2
S1
VDD
VDD
GND
GND
CLKA1
CLKA2
CLKA3
CLKA4
CLKB1
CLKB2
CLKB3
CLKB4
CY2309SC-1H
ICT908
ICT506
ICT578
ICT674
ICT673
ICT671
ICT672
ICT580
ICT579
ICT582
ICT581
R393
R378
R379
R394
R362
R360
R361
R363
22
C161
0.1uF
C162
0.01uF
C163
1000pF
C164
1000pF
C165
0.01uF
C166
0.1uF
C176
22pF
C172
10pF
NO ASM
VCC
L10
BLM10B121SBPTM
NO ASM
IC53
SDCLK2B
REF
CLKOUT
VDD
GND
CLK1
CLK2
CLK3
CLK4
CY2305SC-1H
NO ASM
ICT744
ICT748
ICT1031
ICT747
ICT746
ICT745
C319
1000pF
NO ASM
C320
0.01uF
NO ASM
C321
0.1uF
NO ASM
C326
22pF
NO ASM
ICT1030
7
SDCLK1A
R608
SDCLK1B
R609
C324
10pF
7
M_MDP[


5
6
7
8
A
B
C
D
7 M_MDH[0..31]
MDH[0..31] 9,10,11
BR106 33
M_MDH0 ICT423 5 4 MDH0
M_MDH1 ICT424 6 3 MDH1
M_MDH2 ICT435 7 2 MDH2
M_MDH3 ICT446 8 1 MDH3
BR104 33
M_MDH4 ICT449 5 4 MDH4
M_MDH5 ICT450 6 3 MDH5
M_MDH6 ICT451 7 2 MDH6
M_MDH7 ICT452 8 1 MDH7
BR102 33
M_MDH8 ICT453 5 4 MDH8
M_MDH9 ICT454 6 3 MDH9
M_MDH10 ICT425 7 2 MDH10
M_MDH11 ICT426 8 1 MDH11
BR100 33
M_MDH12 ICT427 5 4 MDH12
M_MDH13 ICT428 6 3 MDH13
M_MDH14 ICT429 7 2 MDH14
M_MDH15 ICT430 8 1 MDH15
BR74 33
M_MDH16 ICT431 5 4 MDH16
M_MDH17 ICT432 6 3 MDH17
M_MDH18 ICT433 7 2 MDH18
M_MDH19 ICT434 8 1 MDH19
BR67 33
M_MDH20 ICT436 5 4 MDH20
M_MDH21 ICT437 6 3 MDH21
M_MDH22 ICT438 7 2 MDH22
M_MDH23 ICT439 8 1 MDH23
BR59 33
M_MDH24 ICT440 5 4 MDH24
M_MDH25 ICT441 6 3 MDH25
M_MDH26 ICT442 7 2 MDH26
M_MDH27 ICT443 8 1 MDH27
BR52 33
M_MDH28 ICT444 5 4 MDH28
M_MDH29 ICT445 6 3 MDH29
M_MDH30 ICT447 7 2 MDH30
M_MDH31 ICT448 8 1 MDH31
22 SDECLK1 11
22 SDECLK2 11
22 SDECLK3 11
22 SDECLK4 11
22 SDECLK5 11
22 SDECLK6 11
22 SDECLK7 11
22 SDECLK8 11
C172 10pF NO ASM
C170 10pF NO ASM
C171 10pF NO ASM
C173 10pF NO ASM
C158 10pF NO ASM
C156 10pF NO ASM
C157 10pF NO ASM
C159 10pF NO ASM
ICT1030
R608 0
LK1B
R609 33 NO ASM
ICT1029
SDCLK1 10
C318 10pF NO ASM
C324 10pF NO ASM
C317 10pF NO ASM
C325 10pF NO ASM
7 M_MDL[0..31]
MDL[0..31] 2,10,11
BR105 33
M_MDL0 ICT455 5 4 MDL0
M_MDL1 ICT456 6 3 MDL1
M_MDL2 ICT467 7 2 MDL2
M_MDL3 ICT478 8 1 MDL3
BR103 33
M_MDL4 ICT481 5 4 MDL4
M_MDL5 ICT482 6 3 MDL5
M_MDL6 ICT483 7 2 MDL6
M_MDL7 ICT484 8 1 MDL7
BR101 33
M_MDL8 ICT485 5 4 MDL8
M_MDL9 ICT486 6 3 MDL9
M_MDL10 ICT457 7 2 MDL10
M_MDL11 ICT458 8 1 MDL11
BR99 33
M_MDL12 ICT459 5 4 MDL12
M_MDL13 ICT460 6 3 MDL13
M_MDL14 ICT461 7 2 MDL14
M_MDL15 ICT462 8 1 MDL15
BR75 33
M_MDL16 ICT463 5 4 MDL16
M_MDL17 ICT464 6 3 MDL17
M_MDL18 ICT465 7 2 MDL18
M_MDL19 ICT466 8 1 MDL19
BR72 33
M_MDL20 ICT468 5 4 MDL20
M_MDL21 ICT469 6 3 MDL21
M_MDL22 ICT470 7 2 MDL22
M_MDL23 ICT471 8 1 MDL23
BR63 33
M_MDL24 ICT472 5 4 MDL24
M_MDL25 ICT473 6 3 MDL25
M_MDL26 ICT474 7 2 MDL26
M_MDL27 ICT475 8 1 MDL27
BR56 33
M_MDL28 ICT476 5 4 MDL28
M_MDL29 ICT477 6 3 MDL29
M_MDL30 ICT479 7 2 MDL30
M_MDL31 ICT480 8 1 MDL31
7 M_MDP[0..7]
MDP[0..7] 9,11
BR77 33
M_MDP0 ICT487 5 4 MDP0
M_MDP1 ICT488 6 3 MDP1
M_MDP2 ICT489 7 2 MDP2
M_MDP3 ICT490 8 1 MDP3
BR76 33
M_MDP4 ICT491 5 4 MDP4
M_MDP5 ICT492 6 3 MDP5
M_MDP6 ICT493 7 2 MDP6
M_MDP7 ICT494 8 1 MDP7

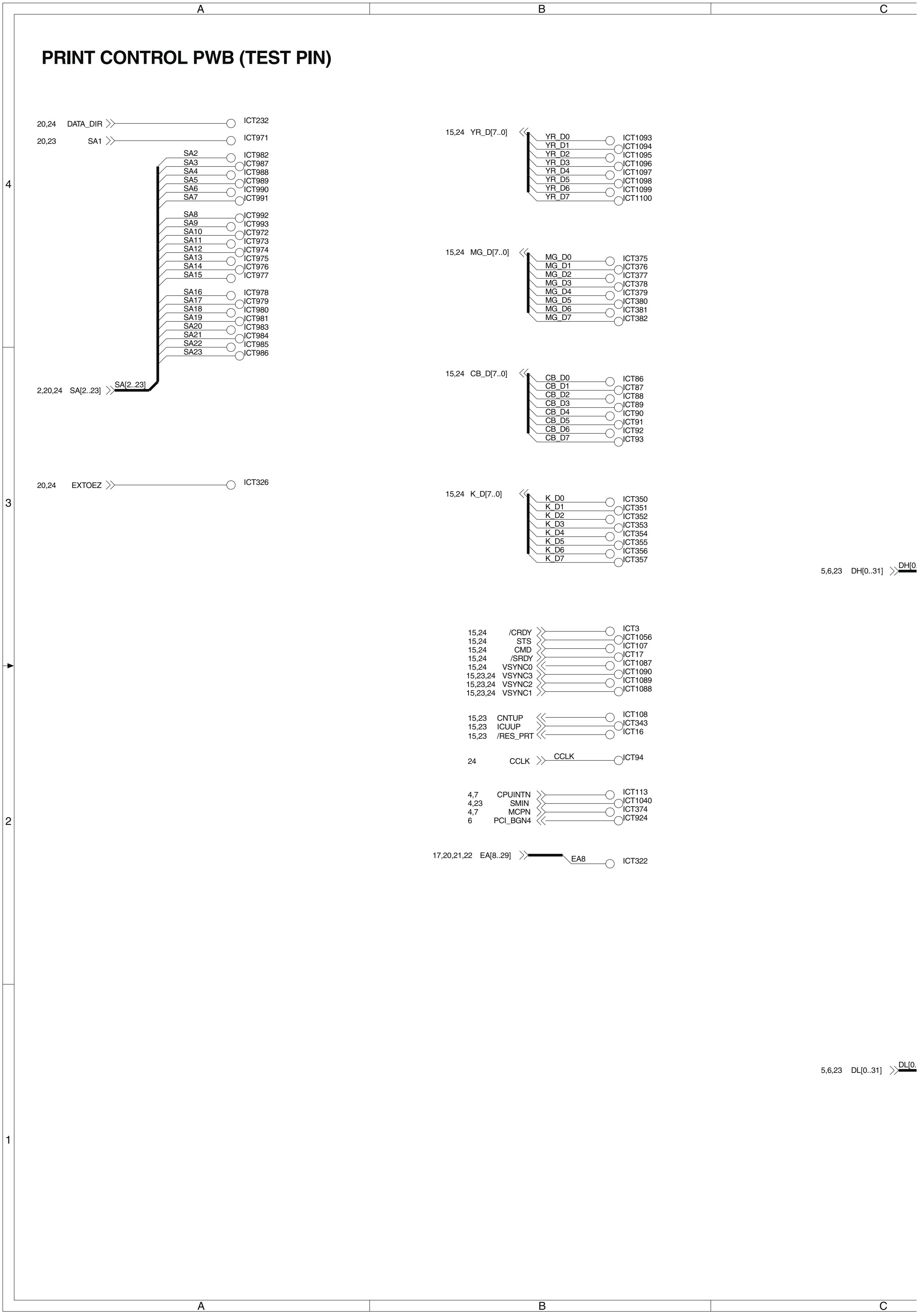
PRINT CONTROL PWB (PCI SLOT #1(NIC),#2(HDD)/SCNIF SLOT)



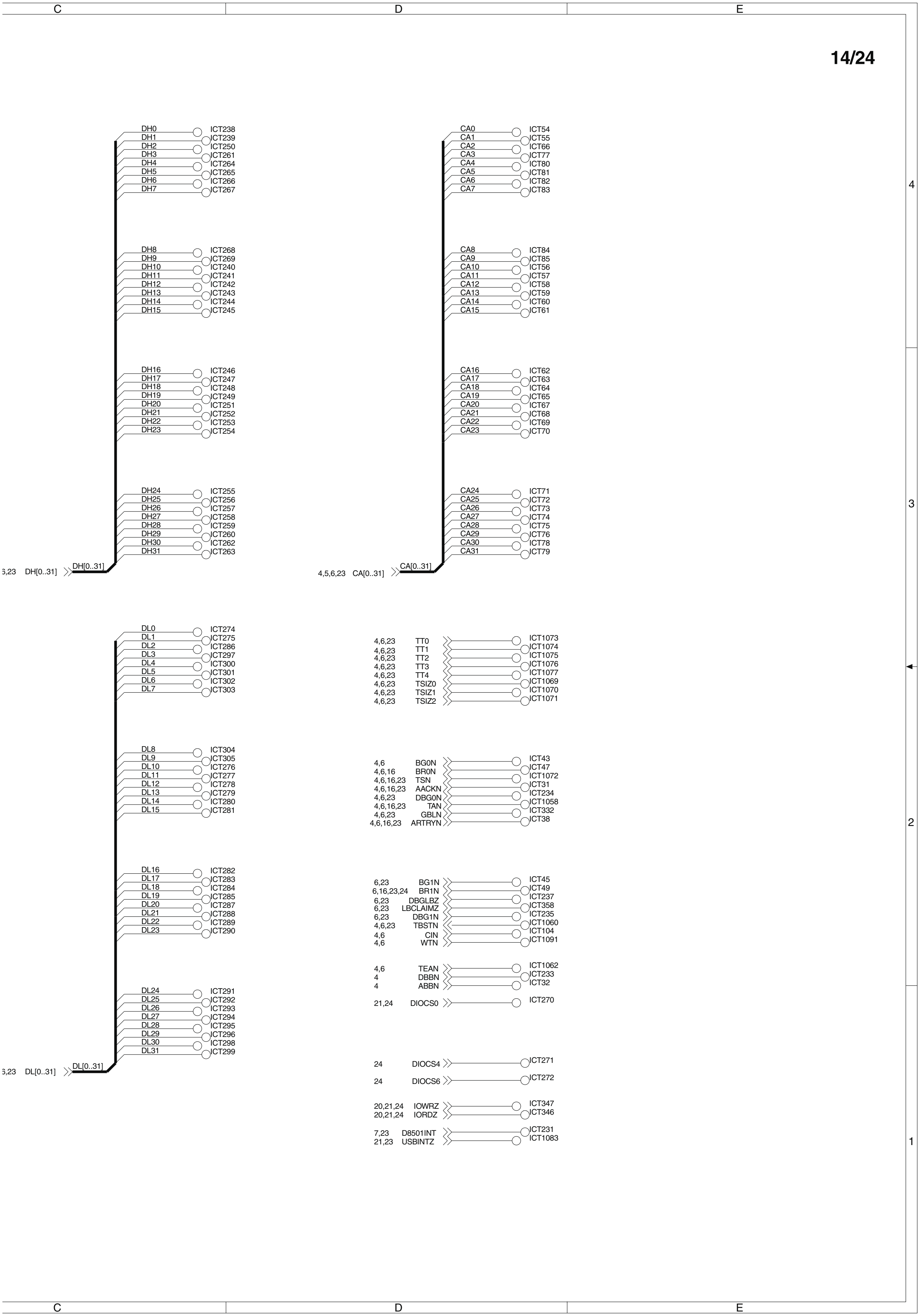
6,16 PCI_BGN2_107
R78 22
6,16 PCI_BRN2
PCI_BRN2 R81 22
6,16 PCI_BRN2_107
R84 0 NO ASM
[PCI SLOT for SCNIF]
(IDSEL=AD16)
[PCI SLOT for NIC]
(IDSEL=AD14)
PCIINTN[0..2]
C_BEN[0..3]
AD[0..31]
CN8
100P9.2-JXKS-GB
CN9
100P15.2-JXKS-GB
VCCP5V
PCIINTN2
PSOR76
PCICLK3
PSOR32
PSOG10
PSCLK
AD16
C22 22pF NO ASM
R139 22
PCIRSTN_M
PSOR54
PSOR10
PSOG76
PSOG54
PSOG32
PSEL
FRAMEN
TRDYN
STOPN
PERRN
PLD_GT
PAR
C_BEN1
C_BEN0
C_BEN2
C_BEN3
IRDYN
DEVSELN
LOCKN
SERRN
VCC
PSOB54
PSOB32
PSOB10
PSOB76
C141 22pF NO ASM
PCICLK1
R345 0
6,16 PCI_BGN0_107
6,16 PCI_BRN0
R343 22
6,16 PCI_BRN0_107
R342 0 NO ASM
AD14
R341 22
PCIINTN0
PCIINTN1
C85 22uF/16V NO ASM
C97 0.1uF
C91 0.1uF
C43 22uF/16V NO ASM
C51 0.1uF
C55 0.1uF
C125 22uF/16V NO ASM
C129 0.1uF
C127 0.1uF
C126 22uF/16V NO ASM
IC9
74LCX244MTC
IC10
74LCX244MTC
C37 0.1uF
C42 0.1uF
ICT778 ICT780 ICT779 ICT777 ICT781 ICT776 ICT788 ICT789
R98 R96 R92 R89 R91 R95 R97 R104 33
ICT784 ICT786 ICT785 ICT783 ICT787 ICT782 ICT1241 ICT790
R140 R138 R136 R125 R111 R110 R137 33
SOR76 SOR54 SOR32 SOR10 SOG76 SOG54 SOG32 SOG10
SOB76 SOB54 SOB32 SOB10 SEL LD_GT SCLK
PSEL PLD_GT PSCLK
BR4 10K
BR3 10K
SERRN PERRN STOPN LOCKN
DEVSELN TRDYN FRAMEN IRDYN
19 PCIRSTN
23 PCIRST_MFP
23 PCIRST_NIC
23 PCIRST_HDD


5
6
7
8
A
B
C
D
6,16 PCI_BGN1_107
R449 22
PCI_BRN1
6,16 PCI_BRN1
R451 22
6,16 PCI_BRN1_107
R450 0 NO ASM
SLOT for NIC]
(IDSEL=AD14)
[PCI SLOT for HDD]
(IDSEL=AD15)
PCIINTN[0..2] 7
C_BEN[0..3] 6
AD[0..31] 6
C_BEN[0..3]
AD[0..31]
CN9
C207
22pF
NO ASM
VCCP5V
CN12
PCIRSTN_N
PCICLK2
PCIINTN1
PCIINTN2
PCIRSTN_H
P24V_PRT
AD15
R498
22
FRAMEN
TRDYN
STOPN
PERRN
IRDYN
DEVSELN
LOCKN
SERRN
PAR
C_BEN3
C_BEN2
C_BEN1
C_BEN0
VCC
+5V
INTA#
INTB#
CLK1
CLK2
CLK3
CLK4
GNT
REQ
NC
GND
RST#
IDSEL
FRAME#
TRDY#
STOP#
PERR#
IRDY#
DEVSEL#
LOCK#
SERR#
+3.3V
C/BE3#
C/BE2#
C/BE1#
C/BE0#
AD31
AD30
AD29
AD28
AD27
AD26
AD25
AD24
AD23
AD22
AD21
AD20
AD19
AD18
AD17
AD16
AD15
AD14
AD13
AD12
AD11
AD10
AD09
AD08
AD07
AD06
AD05
AD04
AD03
AD02
AD01
AD00
100P15.2-JXKS-GB
100P9.2-JXKS-GB
C127 0.1uF
C126 22uF/16V NO ASM
C130 0.1uF
C128 0.1uF
C227 22uF/16V NO ASM
C231 0.1uF
C232 0.1uF
C228 22uF/16V NO ASM
C234 0.1uF
C235 0.1uF
C233 33uF/50V
[for IC5]
C27 0.1uF NO ASM
PCIRSTN
PCIRST_MFP
IC5A
74LCX08MTC NO ASM
ICT646
R76 0 NO ASM
R69 22
PCIRSTN_M
PCIRST_NIC
IC5B
ICT647
R72 0 NO ASM
R73 22
PCIRSTN_N
PCIRST_HDD
IC5C
ICT648
R65 0 NO ASM
R79 22
PCIRSTN_H
R74 0 NO ASM
R77 0 NO ASM
ICT753
ICT754
IC5D
74LCX08MTC NO ASM
ICT1210

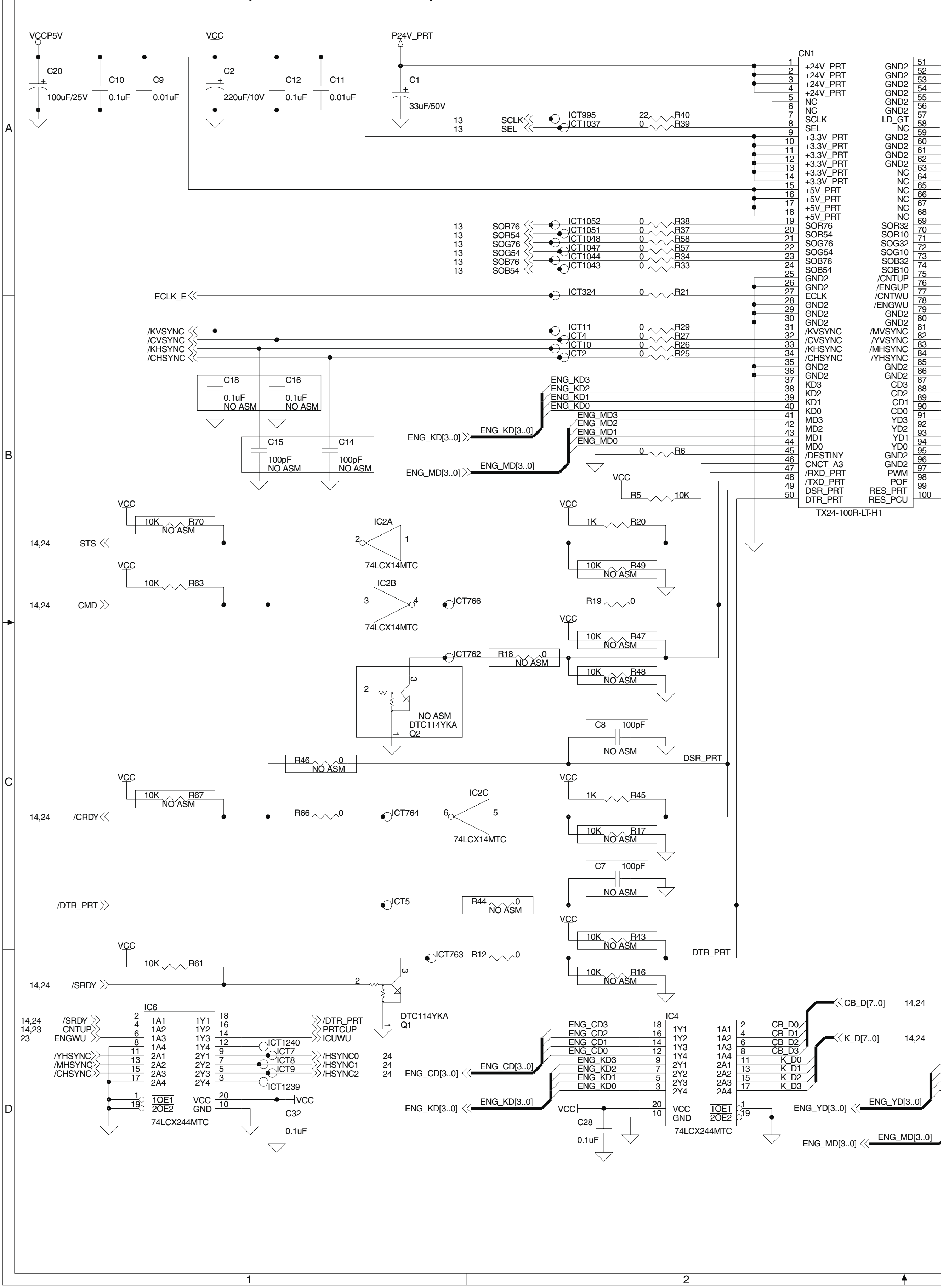
PRINT CONTROL PWB (TEST PIN)



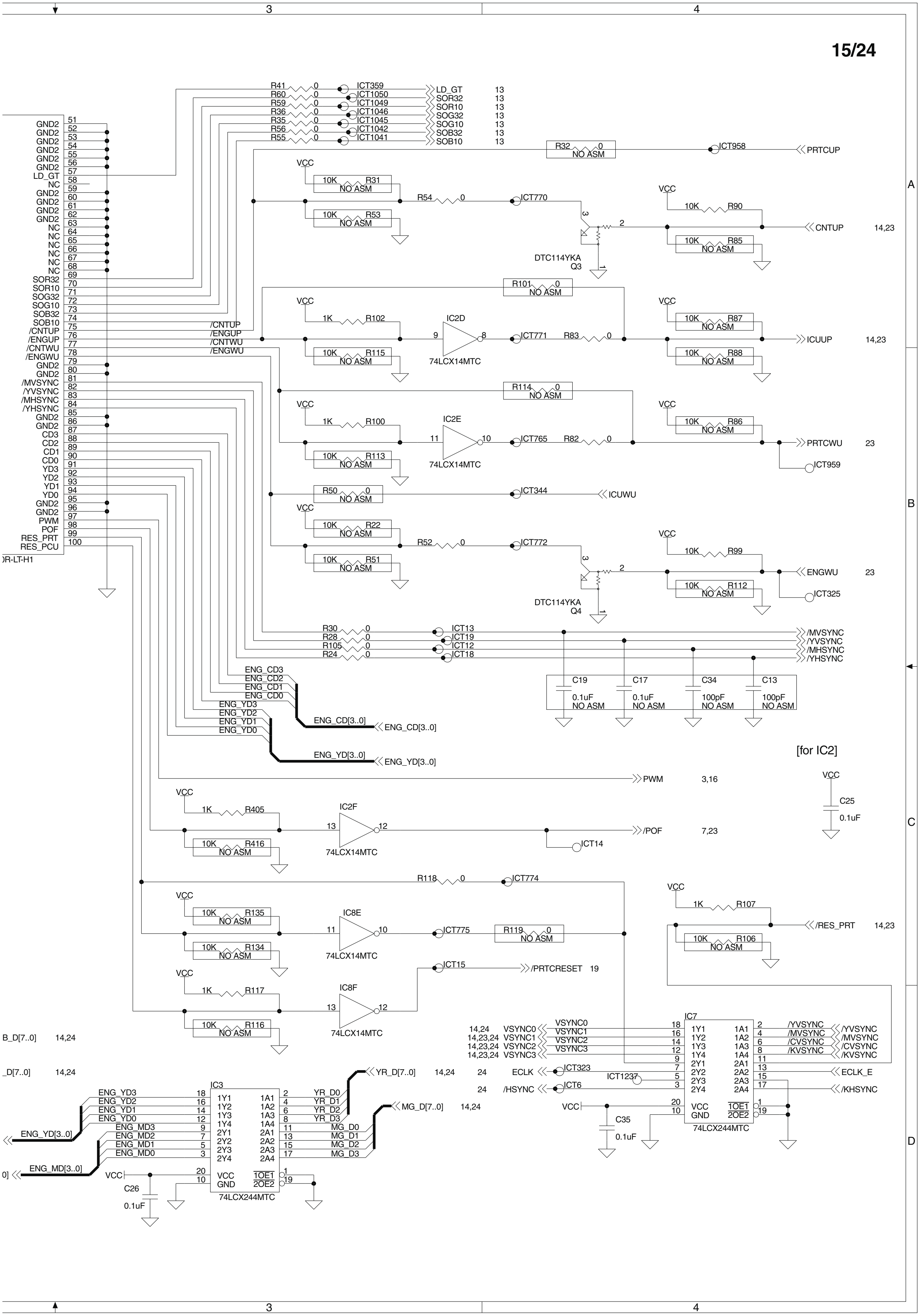
A
B
C
4
3
2
1
20,24 DATA_DIR
ICT232
20,23 SA1
ICT971
SA2 ICT982
SA3 ICT987
SA4 ICT988
SA5 ICT989
SA6 ICT990
SA7 ICT991
SA8 ICT992
SA9 ICT993
SA10 ICT972
SA11 ICT973
SA12 ICT974
SA13 ICT975
SA14 ICT976
SA15 ICT977
SA16 ICT978
SA17 ICT979
SA18 ICT980
SA19 ICT981
SA20 ICT983
SA21 ICT984
SA22 ICT985
SA23 ICT986
SA[2..23]
2,20,24 SA[2..23]
20,24 EXTOEZ
ICT326
15,24 YR_D[7..0]
YR_D0 ICT1093
YR_D1 ICT1094
YR_D2 ICT1095
YR_D3 ICT1096
YR_D4 ICT1097
YR_D5 ICT1098
YR_D6 ICT1099
YR_D7 ICT1100
15,24 MG_D[7..0]
MG_D0 ICT375
MG_D1 ICT376
MG_D2 ICT377
MG_D3 ICT378
MG_D4 ICT379
MG_D5 ICT380
MG_D6 ICT381
MG_D7 ICT382
15,24 CB_D[7..0]
CB_D0 ICT86
CB_D1 ICT87
CB_D2 ICT88
CB_D3 ICT89
CB_D4 ICT90
CB_D5 ICT91
CB_D6 ICT92
CB_D7 ICT93
15,24 K_D[7..0]
K_D0 ICT350
K_D1 ICT351
K_D2 ICT352
K_D3 ICT353
K_D4 ICT354
K_D5 ICT355
K_D6 ICT356
K_D7 ICT357
5,6,23 DH[0..31]
DH[0
15,24 /CRDY ICT3
15,24 STS ICT1056
15,24 CMD ICT107
15,24 /SRDY ICT17
15,24 VSYNC0 ICT1087
15,23,24 VSYNC3 ICT1090
15,23,24 VSYNC2 ICT1089
15,23,24 VSYNC1 ICT1088
15,23 CNTUP ICT108
15,23 ICUUP ICT343
15,23 /RES_PRT ICT16
24 CCLK
CCLK ICT94
4,7 CPUINTN ICT113
4,23 SMIN ICT1040
4,7 MCPN ICT374
6 PCI_BGN4 ICT924
17,20,21,22 EA[8..29]
EA8
ICT322
5,6,23 DL[0..31]
DL[0.


C
D
E
14/24
4
3
2
1
DH0 ICT238
DH1 ICT239
DH2 ICT250
DH3 ICT261
DH4 ICT264
DH5 ICT265
DH6 ICT266
DH7 ICT267
DH8 ICT268
DH9 ICT269
DH10 ICT240
DH11 ICT241
DH12 ICT242
DH13 ICT243
DH14 ICT244
DH15 ICT245
DH16 ICT246
DH17 ICT247
DH18 ICT248
DH19 ICT249
DH20 ICT251
DH21 ICT252
DH22 ICT253
DH23 ICT254
DH24 ICT255
DH25 ICT256
DH26 ICT257
DH27 ICT258
DH28 ICT259
DH29 ICT260
DH30 ICT262
DH31 ICT263
,23 DH[0..31]
DH[0..31]
CA0 ICT54
CA1 ICT55
CA2 ICT66
CA3 ICT77
CA4 ICT80
CA5 ICT81
CA6 ICT82
CA7 ICT83
CA8 ICT84
CA9 ICT85
CA10 ICT56
CA11 ICT57
CA12 ICT58
CA13 ICT59
CA14 ICT60
CA15 ICT61
CA16 ICT62
CA17 ICT63
CA18 ICT64
CA19 ICT65
CA20 ICT67
CA21 ICT68
CA22 ICT69
CA23 ICT70
CA24 ICT71
CA25 ICT72
CA26 ICT73
CA27 ICT74
CA28 ICT75
CA29 ICT76
CA30 ICT78
CA31 ICT79
4,5,6,23 CA[0..31]
CA[0..31]
DL0 ICT274
DL1 ICT275
DL2 ICT286
DL3 ICT297
DL4 ICT300
DL5 ICT301
DL6 ICT302
DL7 ICT303
DL8 ICT304
DL9 ICT305
DL10 ICT276
DL11 ICT277
DL12 ICT278
DL13 ICT279
DL14 ICT280
DL15 ICT281
DL16 ICT282
DL17 ICT283
DL18 ICT284
DL19 ICT285
DL20 ICT287
DL21 ICT288
DL22 ICT289
DL23 ICT290
DL24 ICT291
DL25 ICT292
DL26 ICT293
DL27 ICT294
DL28 ICT295
DL29 ICT296
DL30 ICT298
DL31 ICT299
,23 DL[0..31]
DL[0..31]
4,6,23 TT0 ICT1073
4,6,23 TT1 ICT1074
4,6,23 TT2 ICT1075
4,6,23 TT3 ICT1076
4,6,23 TT4 ICT1077
4,6,23 TSIZ0 ICT1069
4,6,23 TSIZ1 ICT1070
4,6,23 TSIZ2 ICT1071
4,6 BG0N ICT43
4,6,16 BR0N ICT47
4,6,16,23 TSN ICT1072
4,6,16,23 AACKN ICT31
4,6,23 DBG0N ICT234
4,6,16,23 TAN ICT1058
4,6,23 GBLN ICT332
4,6,16,23 ARTRYN ICT38
6,23 BG1N ICT45
6,16,23,24 BR1N ICT49
6,23 DBGLBZ ICT237
6,23 LBCLAIMZ ICT358
6,23 DBG1N ICT235
4,6,23 TBSTN ICT1060
4,6 CIN ICT104
4,6 WTN ICT1091
4,6 TEAN ICT1062
4 DBBN ICT233
4 ABBN ICT32
21,24 DIOCS0 ICT270
24 DIOCS4 ICT271
24 DIOCS6 ICT272
20,21,24 IOWRZ ICT347
20,21,24 IORDZ ICT346
7,23 D8501INT ICT231
21,23 USBINTZ ICT1083

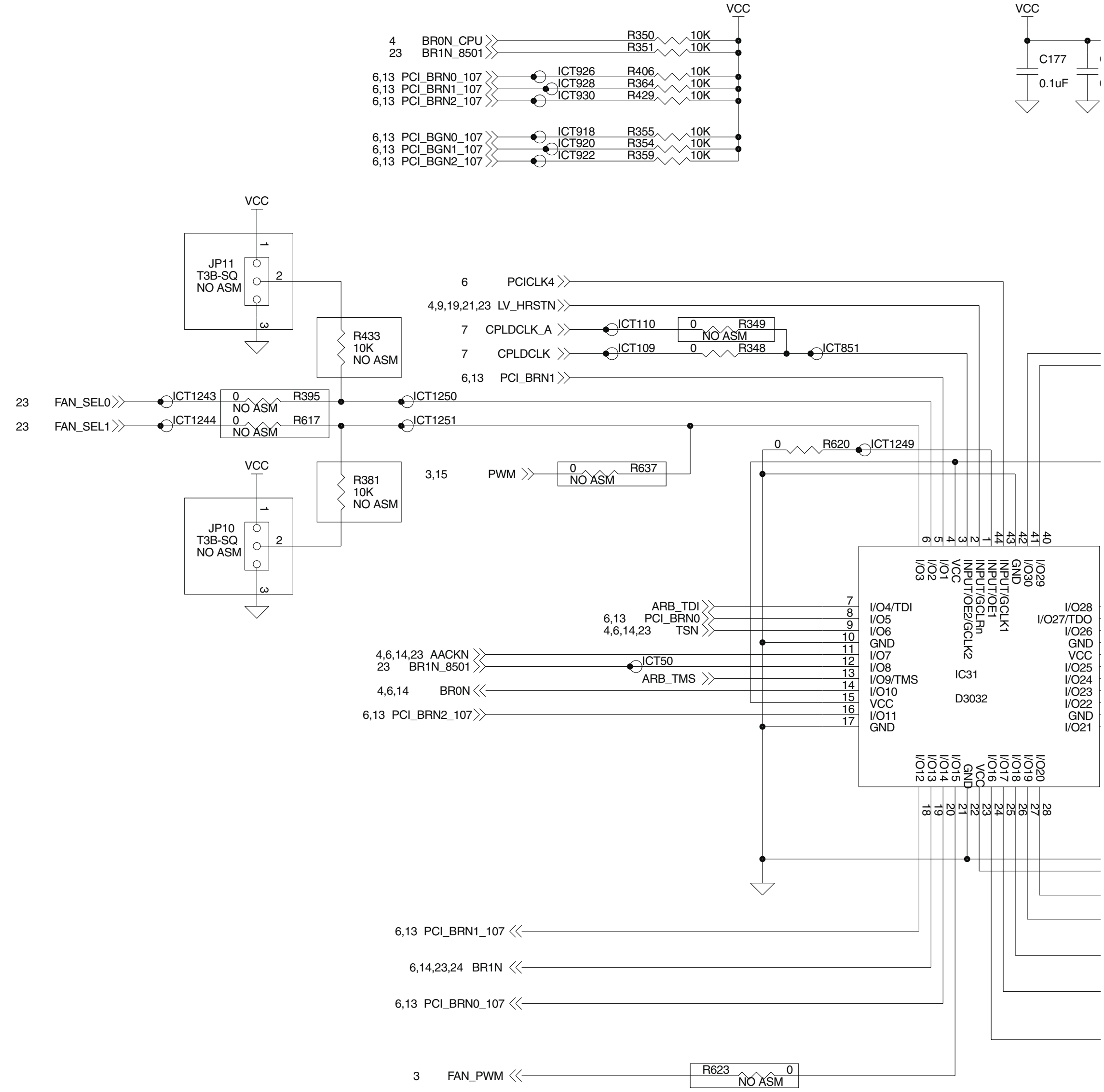
PRINT CONTROL PWB (ENGINE INTERFACE)

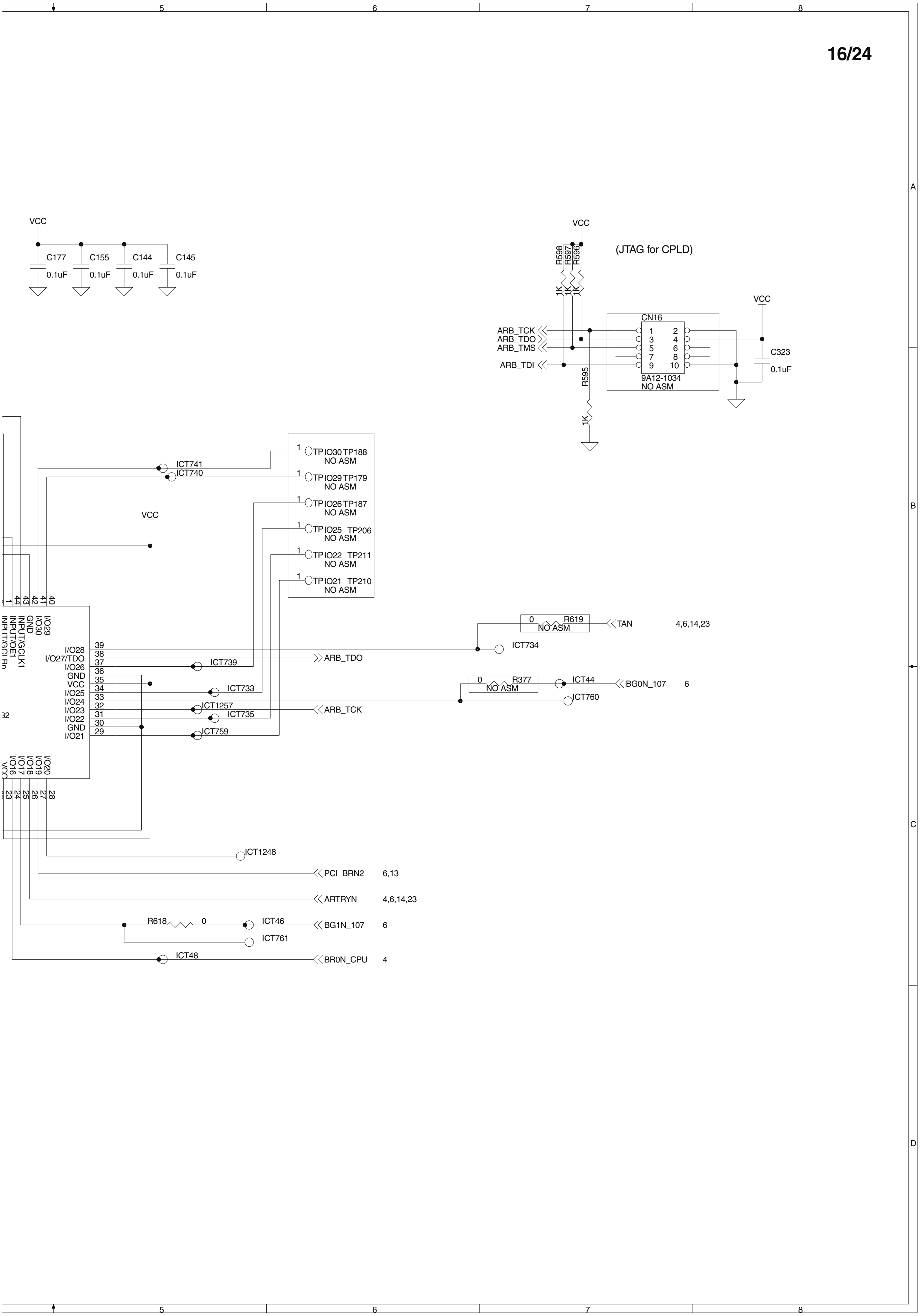


1
2
A
B
C
D
VCCP5V
VCC
P24V_PRT
C20
100uF/25V
C10
0.1uF
C9
0.01uF
C2
220uF/10V
C12
0.1uF
C11
0.01uF
C1
33uF/50V
CN1
1 +24V_PRT GND2 51
2 +24V_PRT GND2 52
3 +24V_PRT GND2 53
4 +24V_PRT GND2 54
5 NC GND2 55
6 NC GND2 56
7 SCLK LD_GT 57
8 SEL NC 58
9 +3.3V_PRT GND2 59
10 +3.3V_PRT GND2 60
11 +3.3V_PRT GND2 61
12 +3.3V_PRT GND2 62
13 +3.3V_PRT NC 63
14 +5V_PRT NC 64
15 +5V_PRT NC 65
16 +5V_PRT NC 66
17 +5V_PRT NC 67
18 SOR76 NC 68
19 SOR54 SOR32 69
20 SOG76 SOR10 70
21 SOG54 SOG32 71
22 SOB76 SOG10 72
23 SOB54 SOB32 73
24 GND2 SOB10 74
25 GND2 /CNTUP 75
26 ECLK /ENGUP 76
27 GND2 /CNTWU 77
28 GND2 /ENGWU 78
29 GND2 GND2 79
30 /KVSYNC GND2 80
31 /CVSYNC /MVSYNC 81
32 /KHSYNC /YVSYNC 82
33 /CHSYNC /MHSYNC 83
34 GND2 /YHSYNC 84
35 GND2 GND2 85
36 KD3 GND2 86
37 KD2 CD3 87
38 KD1 CD2 88
39 KD0 CD1 89
40 MD3 CD0 90
41 MD2 YD3 91
42 MD1 YD2 92
43 MD0 YD1 93
44 /DESTINY YD0 94
45 CNCT_A3 GND2 95
46 /RXD_PRT GND2 96
47 /TXD_PRT PWM 97
48 DSR_PRT POF 98
49 DTR_PRT RES_PRT 99
50 RES_PCU 100
TX24-100R-LT-H1
13 SCLK ICT995 22 R40
13 SEL ICT1037 0 R39
13 SOR76 ICT1052 0 R38
13 SOR54 ICT1051 0 R37
13 SOG76 ICT1048 0 R58
13 SOG54 ICT1047 0 R57
13 SOB76 ICT1044 0 R34
13 SOB54 ICT1043 0 R33
ECLK_E ICT324 0 R21
/KVSYNC ICT11 0 R29
/CVSYNC ICT4 0 R27
/KHSYNC ICT10 0 R26
/CHSYNC ICT2 0 R25
C18 0.1uF NO ASM
C16 0.1uF NO ASM
C15 100pF NO ASM
C14 100pF NO ASM
ENG_KD3
ENG_KD2
ENG_KD1
ENG_KD0
ENG_MD3
ENG_MD2
ENG_MD1
ENG_MD0
ENG_KD[3..0]
ENG_MD[3..0]
0 R6
VCC
R5 10K
VCC
10K R70 NO ASM
IC2A
2
1
74LCX14MTC
14,24 STS
VCC
1K R20
10K R49 NO ASM
VCC
10K R63
IC2B
3
4
ICT766
R19 0
74LCX14MTC
14,24 CMD
VCC
10K R47 NO ASM
ICT762
R18 0 NO ASM
10K R48 NO ASM
2
3
1
NO ASM
DTC114YKA
Q2
C8 100pF NO ASM
R46 0 NO ASM
DSR_PRT
VCC
10K R67 NO ASM
VCC
1K R45
14,24 /CRDY
R66 0
ICT764
IC2C
6
5
74LCX14MTC
10K R17 NO ASM
C7 100pF NO ASM
/DTR_PRT
ICT5
R44 0 NO ASM
VCC
10K R43 NO ASM
DTR_PRT
VCC
10K R61
ICT763 R12 0
10K R16 NO ASM
14,24 /SRDY
2
3
1
DTC114YKA
Q1
IC6
14,24 /SRDY 2 1A1 1Y1 18 /DTR_PRT
14,23 CNTUP 4 1A2 1Y2 16 PRTCUP
23 ENGWU 6 1A3 1Y3 14 ICUWU
8 1A4 1Y4 12 ICT1240
/YHSYNC 11 2A1 2Y1 9 ICT7 /HSYNC0 24
/MHSYNC 13 2A2 2Y2 7 ICT8 /HSYNC1 24
/CHSYNC 15 2A3 2Y3 5 ICT9 /HSYNC2 24
17 2A4 2Y4 3 ICT1239
1 1OE1 VCC 20 VCC
19 2OE2 GND 10
74LCX244MTC
C32
0.1uF
IC4
ENG_CD3 18 1Y1 1A1 2 CB_D0
ENG_CD2 16 1Y2 1A2 4 CB_D1
ENG_CD1 14 1Y3 1A3 6 CB_D2
ENG_CD0 12 1Y4 1A4 8 CB_D3
ENG_KD3 9 2Y1 2A1 11 K_D0
ENG_KD2 7 2Y2 2A2 13 K_D1
ENG_KD1 5 2Y3 2A3 15 K_D2
ENG_KD0 3 2Y4 2A4 17 K_D3
VCC 20 VCC 1OE1 1
10 GND 2OE2 19
74LCX244MTC
ENG_CD[3..0]
ENG_KD[3..0]
C28
0.1uF
CB_D[7..0] 14,24
K_D[7..0] 14,24
ENG_YD[3..0]
ENG_MD[3..0]

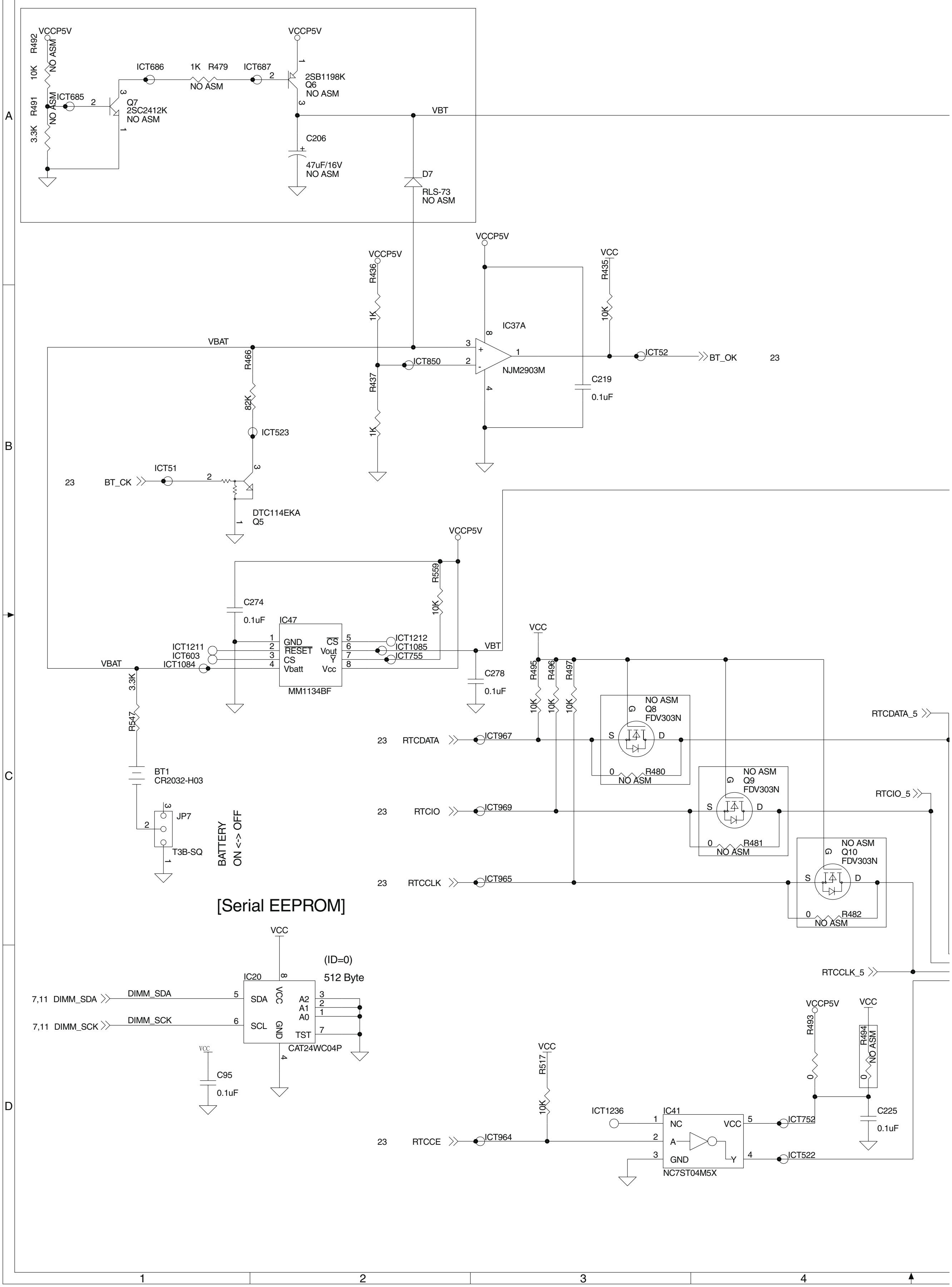

3
4
A
B
C
D
GND2 51
GND2 52
GND2 53
GND2 54
GND2 55
GND2 56
LD_GT 57
NC 58
GND2 59
GND2 60
GND2 61
GND2 62
NC 63
NC 64
NC 65
NC 66
NC 67
NC 68
SOR32 69
SOR10 70
SOG32 71
SOG10 72
SOB32 73
SOB10 74
/CNTUP 75
/ENGUP 76
/CNTWU 77
/ENGWU 78
GND2 79
GND2 80
/MVSYNC 81
/YVSYNC 82
/MHSYNC 83
/YHSYNC 84
GND2 85
GND2 86
CD3 87
CD2 88
CD1 89
CD0 90
YD3 91
YD2 92
YD1 93
YD0 94
GND2 95
GND2 96
PWM 97
POF 98
RES_PRT 99
RES_PCU 100
)R-LT-H1
R41 0 ICT359 LD_GT 13
R60 0 ICT1050 SOR32 13
R59 0 ICT1049 SOR10 13
R36 0 ICT1046 SOG32 13
R35 0 ICT1045 SOG10 13
R56 0 ICT1042 SOB32 13
R55 0 ICT1041 SOB10 13
R32 0 NO ASM
ICT958
PRTCUP
VCC
10K R31 NO ASM
R54 0
ICT770
10K R53 NO ASM
VCC
10K R90
3
2
1
CNTUP 14,23
10K R85 NO ASM
DTC114YKA
Q3
R101 0 NO ASM
VCC
1K R102
IC2D
9
8
ICT771
R83 0
VCC
10K R87 NO ASM
ICUUP 14,23
/CNTUP
/ENGUP
/CNTWU
/ENGWU
10K R115 NO ASM
74LCX14MTC
10K R88 NO ASM
R114 0 NO ASM
VCC
1K R100
IC2E
11
10
ICT765
R82 0
VCC
10K R86 NO ASM
PRTCWU 23
10K R113 NO ASM
74LCX14MTC
ICT959
R50 0 NO ASM
ICT344
ICUWU
VCC
10K R22 NO ASM
R52 0
ICT772
VCC
10K R99
3
2
ENGWU 23
10K R51 NO ASM
10K R112 NO ASM
ICT325
DTC114YKA
Q4
1
R30 0 ICT13
R28 0 ICT19
R105 0 ICT12
R24 0 ICT18
/MVSYNC
/YVSYNC
/MHSYNC
/YHSYNC
C19 0.1uF NO ASM
C17 0.1uF NO ASM
C34 100pF NO ASM
C13 100pF NO ASM
ENG_CD3
ENG_CD2
ENG_CD1
ENG_CD0
ENG_YD3
ENG_YD2
ENG_YD1
ENG_YD0
ENG_CD[3..0]
ENG_CD[3..0]
ENG_YD[3..0]
ENG_YD[3..0]
[for IC2]
VCC
C25
0.1uF
PWM 3,16
VCC
1K R405
IC2F
13
12
/POF 7,23
10K R416 NO ASM
74LCX14MTC
ICT14
R118 0
ICT774
VCC
VCC
1K R107
10K R135 NO ASM
IC8E
11
10
ICT775
R119 0 NO ASM
/RES_PRT 14,23
10K R134 NO ASM
74LCX14MTC
10K R106 NO ASM
VCC
ICT15
/PRTCRESET 19
1K R117
IC8F
13
12
10K R116 NO ASM
74LCX14MTC
B_D[7..0] 14,24
_D[7..0] 14,24
IC7
14,24 VSYNC0 VSYNC0 18 1Y1 1A1 2 /YVSYNC /YVSYNC
14,23,24 VSYNC1 VSYNC1 16 1Y2 1A2 4 /MVSYNC /MVSYNC
14,23,24 VSYNC2 VSYNC2 14 1Y3 1A3 6 /CVSYNC /CVSYNC
14,23,24 VSYNC3 VSYNC3 12 1Y4 1A4 8 /KVSYNC /KVSYNC
9 2Y1 2A1 11
24 ECLK ICT323 7 2Y2 2A2 13 ECLK_E
ICT1237 5 2Y3 2A3 15
24 /HSYNC ICT6 3 2Y4 2A4 17 /KHSYNC
VCC 20 VCC 1OE1 1
10 GND 2OE2 19
C35
0.1uF
74LCX244MTC
YR_D[7..0] 14,24
MG_D[7..0] 14,24
IC3
ENG_YD3 18 1Y1 1A1 2 YR_D0
ENG_YD2 16 1Y2 1A2 4 YR_D1
ENG_YD1 14 1Y3 1A3 6 YR_D2
ENG_YD0 12 1Y4 1A4 8 YR_D3
ENG_MD3 9 2Y1 2A1 11 MG_D0
ENG_MD2 7 2Y2 2A2 13 MG_D1
ENG_MD1 5 2Y3 2A3 15 MG_D2
ENG_MD0 3 2Y4 2A4 17 MG_D3
ENG_YD[3..0]
0] ENG_MD[3..0]
VCC 20 VCC 1OE1 1
10 GND 2OE2 19
C26
0.1uF
74LCX244MTC

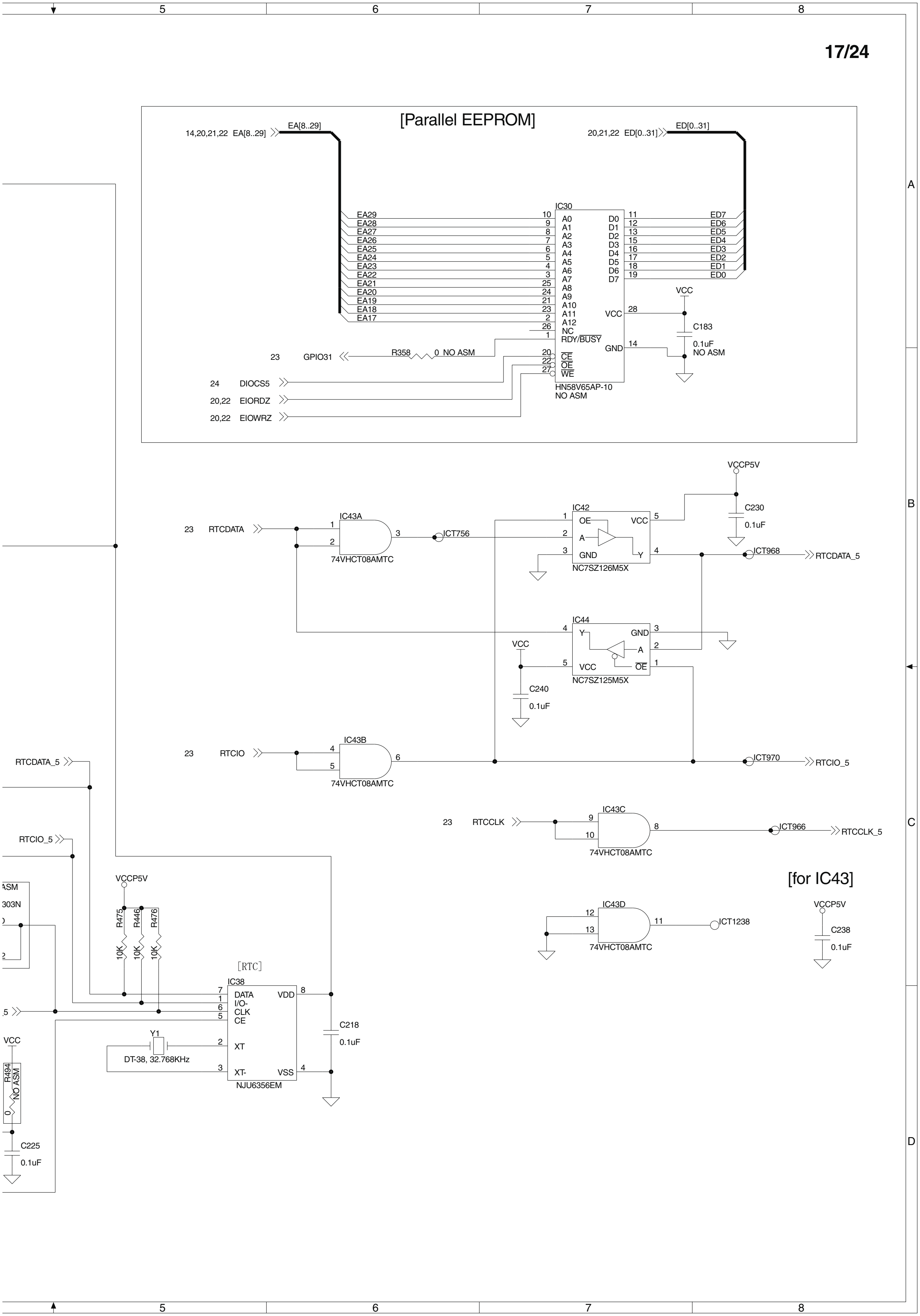
PRINT CONTROL PWB (D3032)


VCC
4 BR0N_CPU
23 BR1N_8501
R350 10K
R351 10K
6,13 PCI_BRN0_107
6,13 PCI_BRN1_107
6,13 PCI_BRN2_107
ICT926 R406 10K
ICT928 R364 10K
ICT930 R429 10K
6,13 PCI_BGN0_107
6,13 PCI_BGN1_107
6,13 PCI_BGN2_107
ICT918 R355 10K
ICT920 R354 10K
ICT922 R359 10K
VCC
C177
0.1uF
VCC
JP11
T3B-SQ
NO ASM
1
2
3
R433
10K
NO ASM
6 PCICLK4
4,9,19,21,23 LV_HRSTN
7 CPLDCLK_A
ICT110 0 R349
NO ASM
7 CPLDCLK
ICT109 0 R348
ICT851
6,13 PCI_BRN1
23 FAN_SEL0
ICT1243 0 R395
NO ASM
ICT1250
23 FAN_SEL1
ICT1244 0 R617
NO ASM
ICT1251
0 R620 ICT1249
VCC
R381
10K
NO ASM
3,15 PWM
0 R637
NO ASM
JP10
T3B-SQ
NO ASM
1
2
3
ARB_TDI
6,13 PCI_BRN0
4,6,14,23 TSN
4,6,14,23 AACKN
23 BR1N_8501
ICT50
ARB_TMS
4,6,14 BR0N
6,13 PCI_BRN2_107
6 5 4 3 2 1 44 43 42 41 40
I/O3 I/O2 I/O1 VCC INPUT/OE2/GCLK2 INPUT/GCLRn INPUT/OE1 INPUT/GCLK1 GND I/O30 I/O29
7 8 9 10 11 12 13 14 15 16 17
I/O4/TDI
I/O5
I/O6
GND
I/O7
I/O8
I/O9/TMS
I/O10
VCC
I/O11
GND
IC31
D3032
I/O28
I/O27/TDO
I/O26
GND
VCC
I/O25
I/O24
I/O23
I/O22
GND
I/O21
I/O12 I/O13 I/O14 I/O15 GND VCC I/O16 I/O17 I/O18 I/O19 I/O20
18 19 20 21 22 23 24 25 26 27 28
6,13 PCI_BRN1_107
6,14,23,24 BR1N
6,13 PCI_BRN0_107
3 FAN_PWM
R623 0
NO ASM


5
6
7
8
A
B
C
D
VCC
C177
C155
C144
C145
0.1uF
0.1uF
0.1uF
0.1uF
VCC
R598
R597
R596
1K
1K
1K
(JTAG for CPLD)
VCC
CN16
ARB_TCK
ARB_TDO
ARB_TMS
ARB_TDI
1 2
3 4
5 6
7 8
9 10
9A12-1034
NO ASM
C323
0.1uF
R595
1K
ICT741
ICT740
TP IO30 TP188 NO ASM
TP IO29 TP179 NO ASM
TP IO26 TP187 NO ASM
TP IO25 TP206 NO ASM
TP IO22 TP211 NO ASM
TP IO21 TP210 NO ASM
VCC
40 41 42 43 44 1
I/O29
I/O30
GND
INPUT/GCLK1
INPUT/OE1
INPUT/GCLRn
I/O28 39
I/O27/TDO 38
I/O26 37
GND 36
VCC 35
I/O25 34
I/O24 33
I/O23 32
I/O22 31
GND 30
I/O21 29
32
I/O20
I/O19
I/O18
I/O17
I/O16
VCC
28 27 26 25 24 23
0 R619 NO ASM
TAN 4,6,14,23
ICT734
ICT739
ARB_TDO
ICT733
0 R377 NO ASM
ICT44
BG0N_107 6
ICT760
ICT1257
ICT735
ARB_TCK
ICT759
ICT1248
PCI_BRN2 6,13
ARTRYN 4,6,14,23
R618 0
ICT46
BG1N_107 6
ICT761
ICT48
BR0N_CPU 4

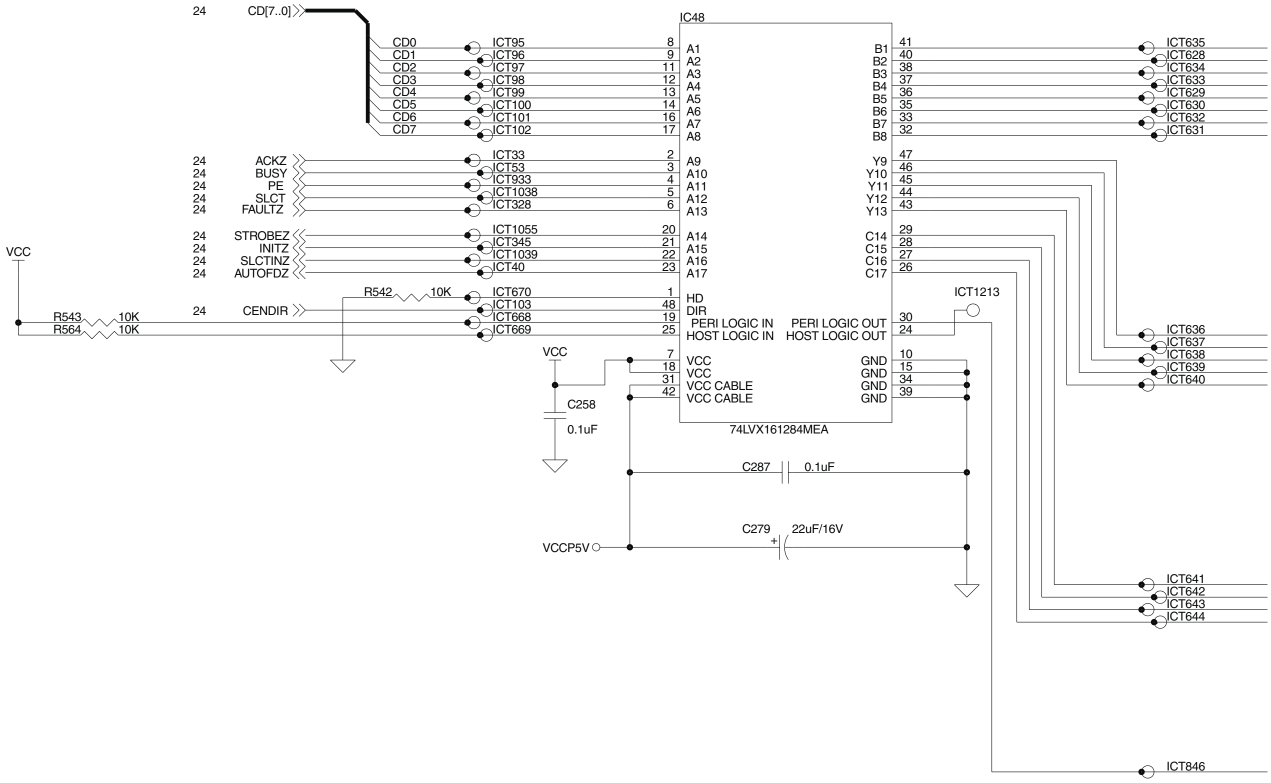
PRINT CONTROL PWB (RTC / BATTERY / EEPROM)

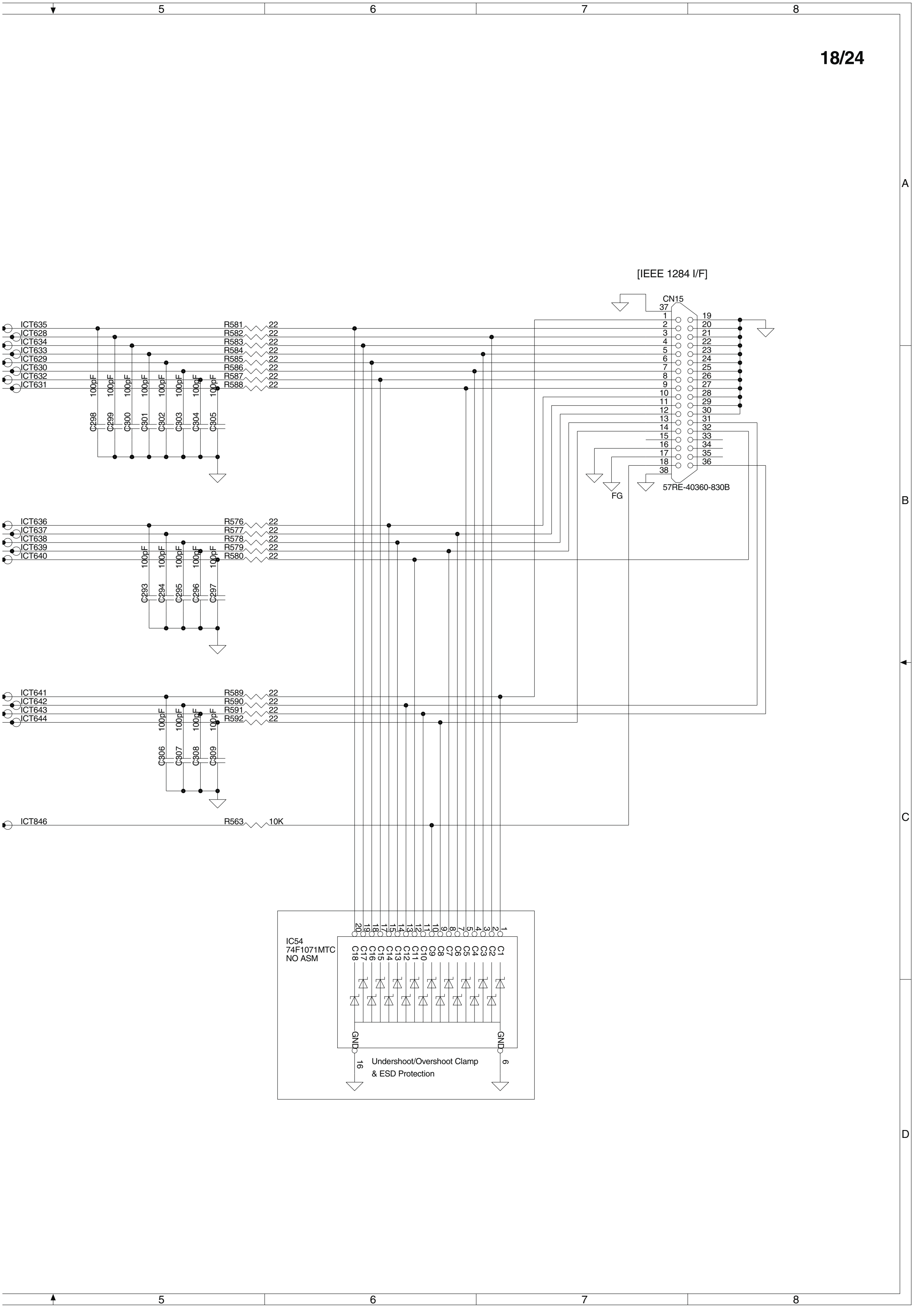

VCCP5V
R492
10K
NO ASM
R491
3.3K
NO ASM
ICT685
Q7
2SC2412K
NO ASM
ICT686
1K R479
NO ASM
ICT687
2SB1198K
Q6
NO ASM
VBT
C206
47uF/16V
NO ASM
D7
RLS-73
NO ASM
VCCP5V
R436
1K
R437
1K
VBAT
R466
82K
ICT523
ICT850
IC37A
NJM2903M
VCC
R435
10K
ICT52
BT_OK
23
C219
0.1uF
23
BT_CK
ICT51
DTC114EKA
Q5
R559
10K
C274
0.1uF
IC47
MM1134BF
GND
RESET
CS
Vbatt
CS
Vout
Y
Vcc
ICT1211
ICT603
ICT1084
ICT1212
ICT1085
ICT755
VBT
C278
0.1uF
3.3K
R547
BT1
CR2032-H03
JP7
T3B-SQ
BATTERY
ON <-> OFF
R495
R496
R497
10K
NO ASM
Q8
FDV303N
Q9
Q10
R480
R481
R482
NO ASM
RTCDATA
ICT967
RTCIO
ICT969
RTCCLK
ICT965
RTCDATA_5
RTCIO_5
RTCCLK_5
[Serial EEPROM]
VCC
(ID=0)
512 Byte
IC20
CAT24WC04P
SDA
SCL
VCC
GND
A2
A1
A0
TST
7,11 DIMM_SDA
7,11 DIMM_SCK
DIMM_SDA
DIMM_SCK
C95
0.1uF
VCCP5V
R493
0
R494
NO ASM
C225
0.1uF
R517
10K
ICT1236
IC41
NC7ST04M5X
NC
A
GND
VCC
Y
ICT752
ICT522
23
RTCCE
ICT964



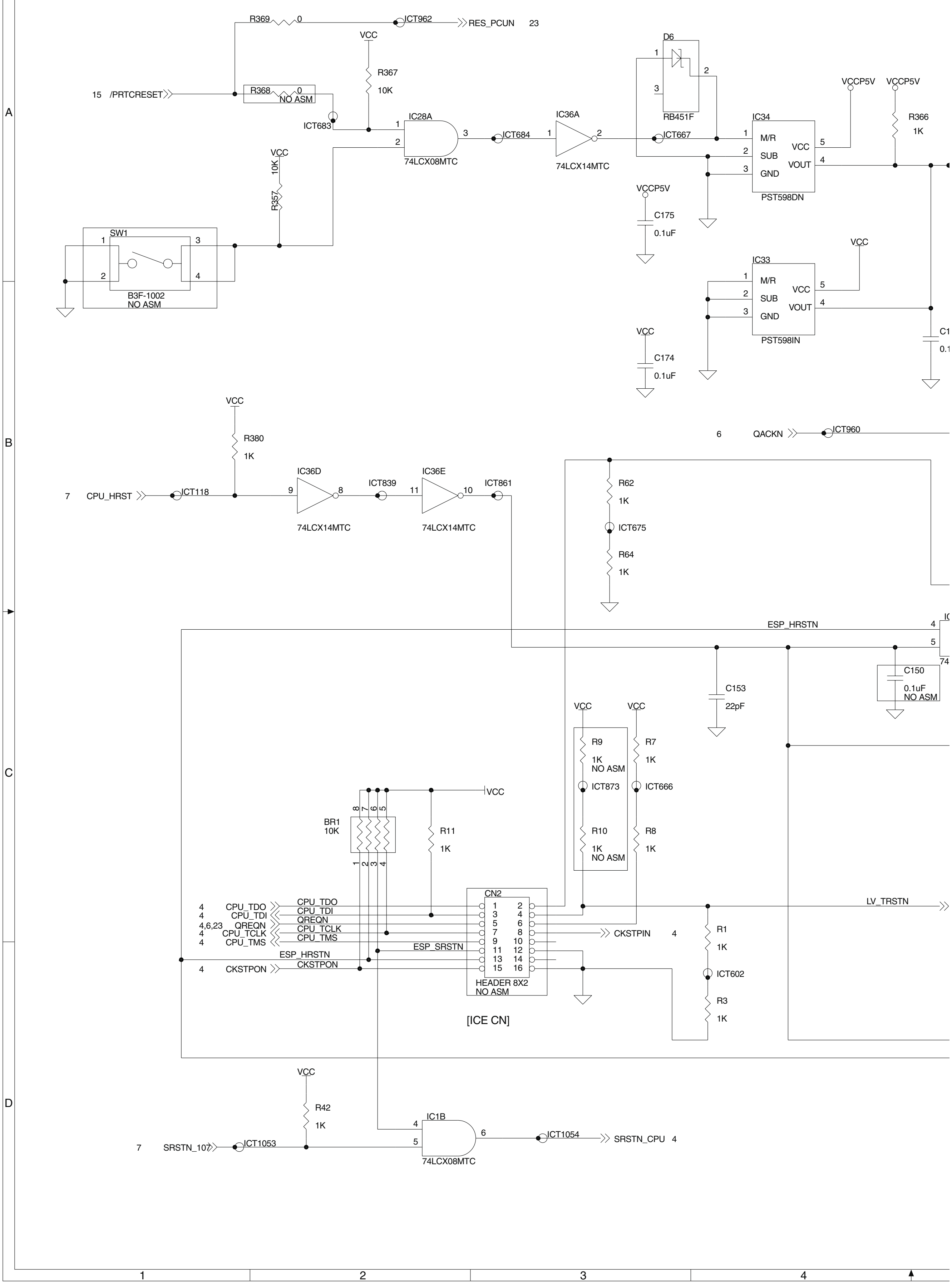
5
6
7
8
17/24
[Parallel EEPROM]
14,20,21,22 EA[8..29]
EA[8..29]
20,21,22 ED[0..31]
ED[0..31]
IC30
EA29
EA28
EA27
EA26
EA25
EA24
EA23
EA22
EA21
EA20
EA19
EA18
EA17
A0
A1
A2
A3
A4
A5
A6
A7
A8
A9
A10
A11
A12
NC
RDY/BUSY
CE
OE
WE
D0
D1
D2
D3
D4
D5
D6
D7
VCC
GND
ED7
ED6
ED5
ED4
ED3
ED2
ED1
ED0
HN58V65AP-10
NO ASM
VCC
C183
0.1uF
NO ASM
23 GPIO31
R358
0 NO ASM
24 DIOCS5
20,22 EIORDZ
20,22 EIOWRZ
A
B
C
D
VCCP5V
C230
0.1uF
23 RTCDATA
IC43A
74VHCT08AMTC
ICT756
IC42
OE
A
GND
VCC
Y
NC7SZ126M5X
ICT968
RTCDATA_5
IC44
Y
GND
A
VCC
OE
NC7SZ125M5X
VCC
C240
0.1uF
23 RTCIO
IC43B
74VHCT08AMTC
ICT970
RTCIO_5
RTCDATA_5
RTCIO_5
23 RTCCLK
IC43C
74VHCT08AMTC
ICT966
RTCCLK_5
[for IC43]
IC43D
74VHCT08AMTC
ICT1238
VCCP5V
C238
0.1uF
VCCP5V
R475
R446
R476
10K
10K
10K
[RTC]
IC38
DATA
I/O-
CLK
CE
XT
XT-
VDD
VSS
NJU6356EM
Y1
DT-38, 32.768KHz
C218
0.1uF
VCC
R494
NO ASM
0
C225
0.1uF
ASM
303N
_5

PRINT CONTROL PWB (IEEE1284 I/F)

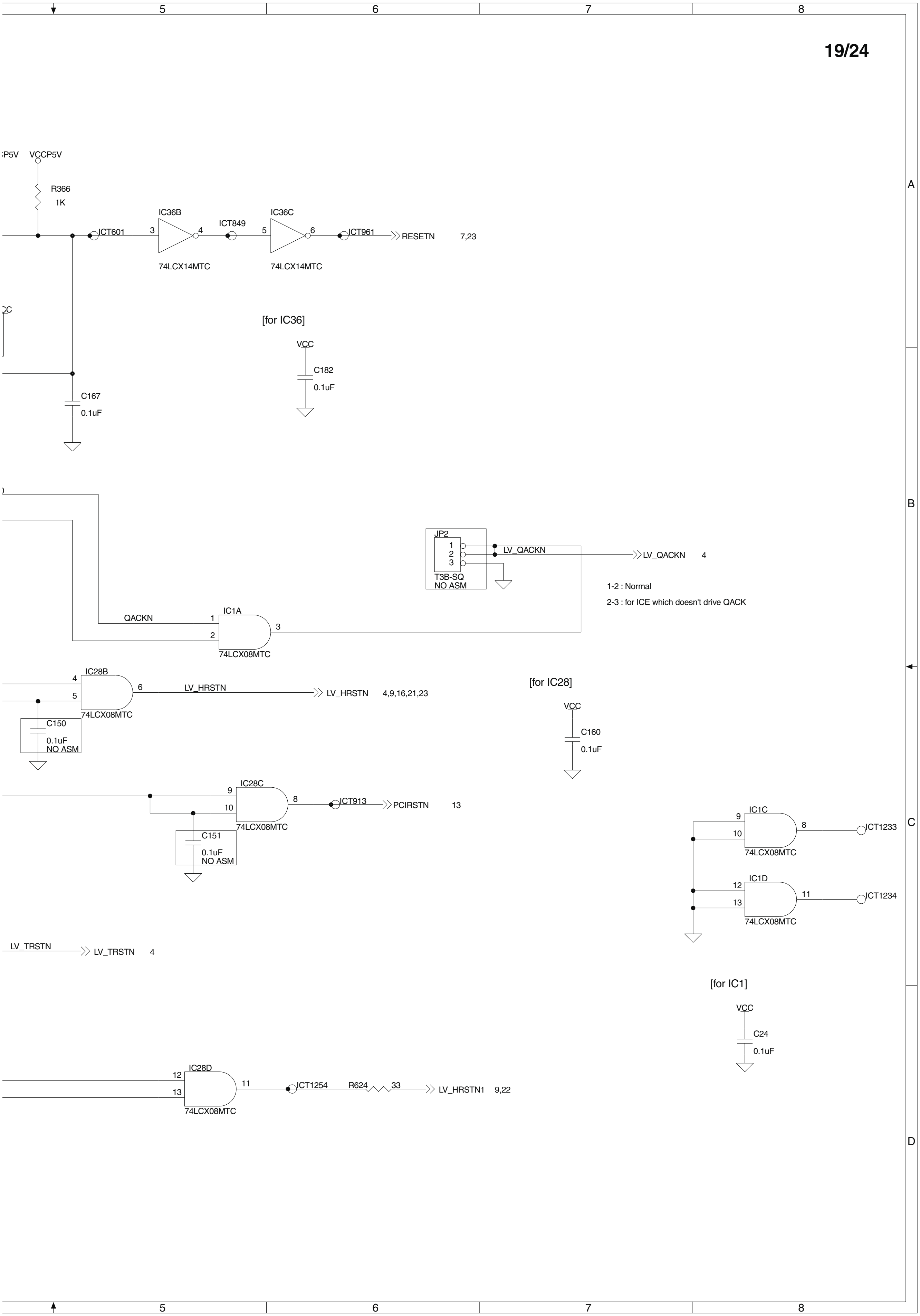

24 CD[7..0]
CD0 ICT95 8 A1
CD1 ICT96 9 A2
CD2 ICT97 11 A3
CD3 ICT98 12 A4
CD4 ICT99 13 A5
CD5 ICT100 14 A6
CD6 ICT101 16 A7
CD7 ICT102 17 A8
24 ACKZ ICT33 2 A9
24 BUSY ICT53 3 A10
24 PE ICT933 4 A11
24 SLCT ICT1038 5 A12
24 FAULTZ ICT328 6 A13
24 STROBEZ ICT1055 20 A14
24 INITZ ICT345 21 A15
24 SLCTINZ ICT1039 22 A16
24 AUTOFDZ ICT40 23 A17
R542 10K ICT670 1 HD
24 CENDIR ICT103 48 DIR
VCC
R543 10K ICT668 19 PERI LOGIC IN
R564 10K ICT669 25 HOST LOGIC IN
IC48
74LVX161284MEA
B1 41 ICT635
B2 40 ICT628
B3 38 ICT634
B4 37 ICT633
B5 36 ICT629
B6 35 ICT630
B7 33 ICT632
B8 32 ICT631
Y9 47
Y10 46
Y11 45
Y12 44
Y13 43
C14 29
C15 28
C16 27
C17 26
ICT1213
PERI LOGIC OUT 30
HOST LOGIC OUT 24
ICT636
ICT637
ICT638
ICT639
ICT640
VCC
7 VCC
18 VCC
31 VCC CABLE
42 VCC CABLE
GND 10
GND 15
GND 34
GND 39
C258
0.1uF
C287 0.1uF
C279 22uF/16V
+
VCCP5V
ICT641
ICT642
ICT643
ICT644
ICT846


[IEEE 1284 I/F]
CN15
57RE-40360-830B
FG
ICT635
ICT628
ICT634
ICT633
ICT629
ICT630
ICT632
ICT631
R581 22
R582 22
R583 22
R584 22
R585 22
R586 22
R587 22
R588 22
C298 100pF
C299 100pF
C300 100pF
C301 100pF
C302 100pF
C303 100pF
C304 100pF
C305 100pF
ICT636
ICT637
ICT638
ICT639
ICT640
R576 22
R577 22
R578 22
R579 22
R580 22
C293 100pF
C294 100pF
C295 100pF
C296 100pF
C297 100pF
ICT641
ICT642
ICT643
ICT644
R589 22
R590 22
R591 22
R592 22
C306 100pF
C307 100pF
C308 100pF
C309 100pF
ICT846
R563 10K
IC54
74F1071MTC
NO ASM
C1 C2 C3 C4 C5 C6 C7 C8 C9 C10 C11 C12 C13 C14 C15 C16 C17 C18
GND 16
GND 6
Undershoot/Overshoot Clamp
& ESD Protection
5
6
7
8
A
B
C
D

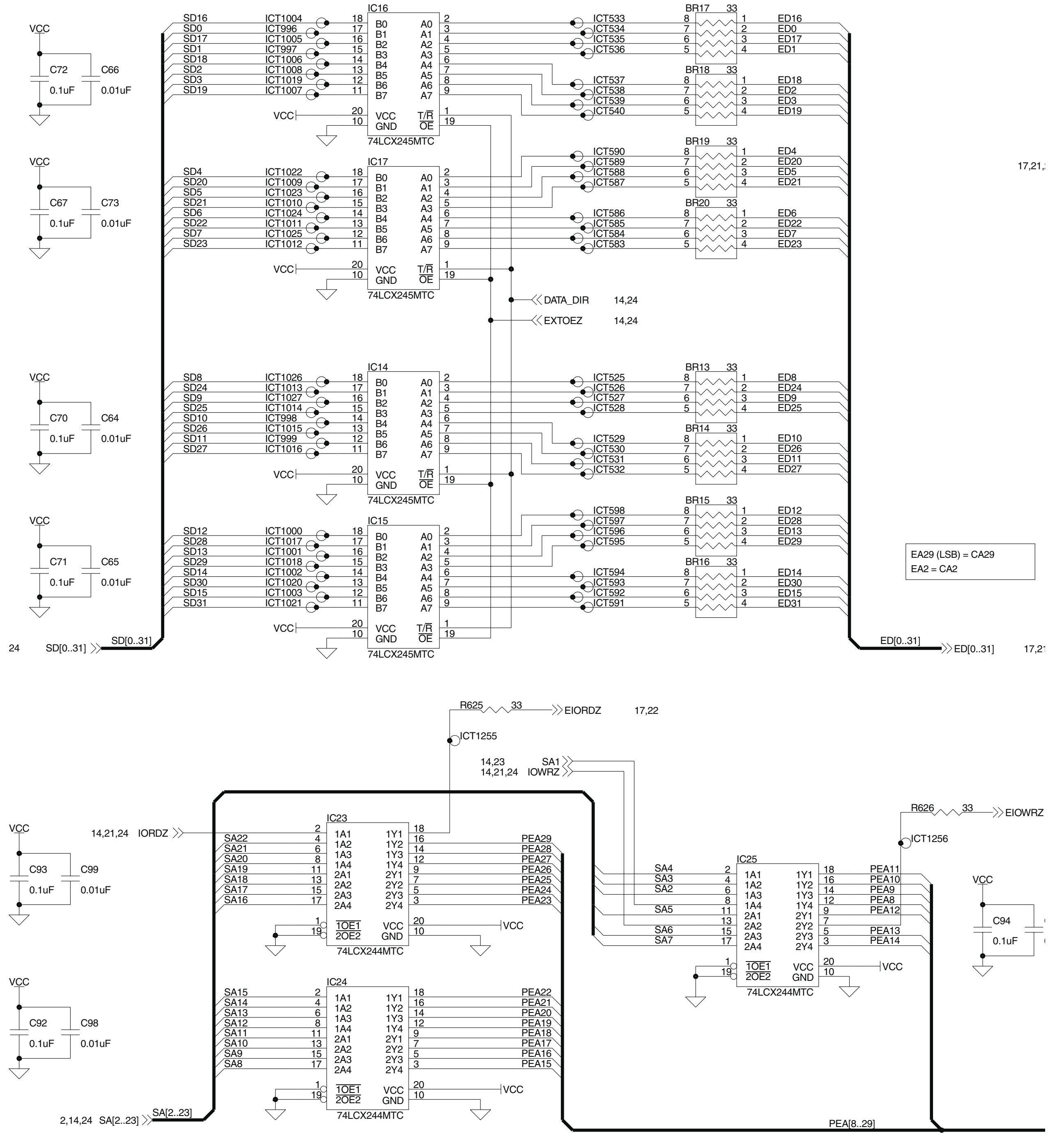
PRINT CONTROL PWB (RESET/COP CN)



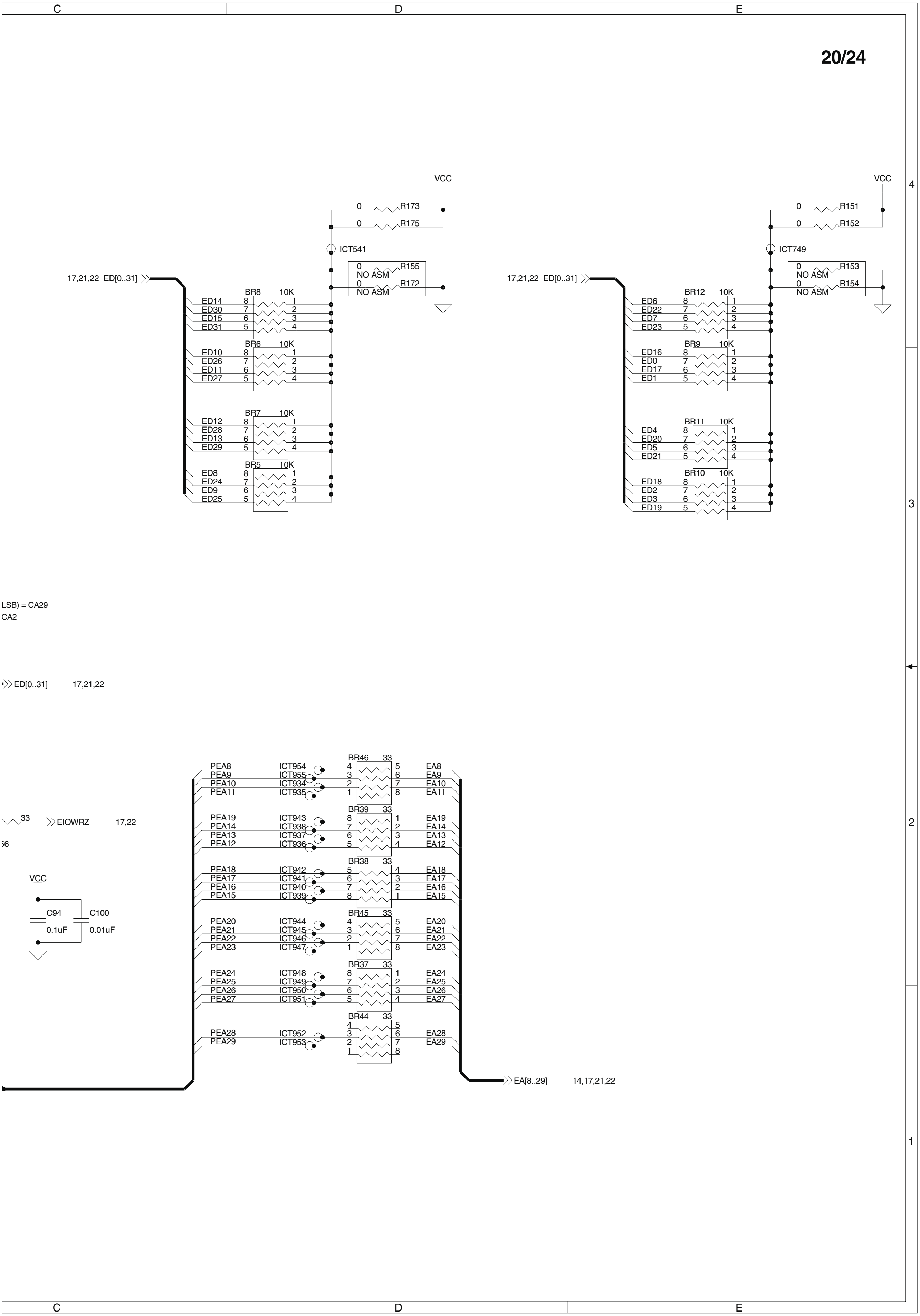
1
2
3
4
A
B
C
D
R369
0
ICT962
RES_PCUN
23
VCC
R367
10K
15
/PRTCRESET
R368
0
NO ASM
ICT683
IC28A
1
2
3
74LCX08MTC
ICT684
IC36A
1
2
74LCX14MTC
D6
1
2
3
RB451F
ICT667
IC34
M/R
SUB
GND
VCC
VOUT
5
4
PST598DN
VCCP5V
VCCP5V
R366
1K
VCCP5V
C175
0.1uF
VCC
10K
R357
SW1
1
2
3
4
B3F-1002
NO ASM
IC33
M/R
SUB
GND
VCC
VOUT
PST598IN
VCC
VCC
C174
0.1uF
C1
0.1
VCC
R380
1K
6
QACKN
ICT960
7
CPU_HRST
ICT118
IC36D
9
8
74LCX14MTC
ICT839
IC36E
11
10
74LCX14MTC
ICT861
R62
1K
ICT675
R64
1K
ESP_HRSTN
IC
4
5
74
C150
0.1uF
NO ASM
C153
22pF
VCC
VCC
R9
1K
NO ASM
R7
1K
ICT873
ICT666
R10
1K
NO ASM
R8
1K
VCC
BR1
10K
8 7 6 5
1 2 3 4
R11
1K
CN2
1 2
3 4
5 6
7 8
9 10
11 12
13 14
15 16
HEADER 8X2
NO ASM
LV_TRSTN
4 CPU_TDO
4 CPU_TDI
4,6,23 QREQN
4 CPU_TCLK
4 CPU_TMS
CPU_TDO
CPU_TDI
QREQN
CPU_TCLK
CPU_TMS
ESP_SRSTN
ESP_HRSTN
CKSTPON
4 CKSTPON
CKSTPIN
4
R1
1K
ICT602
R3
1K
[ICE CN]
VCC
R42
1K
IC1B
4
5
6
74LCX08MTC
7
SRSTN_107
ICT1053
ICT1054
SRSTN_CPU
4


5
6
7
8
A
B
C
D
VCCP5V
R366
1K
IC36B
ICT601
3
4
74LCX14MTC
ICT849
IC36C
5
6
74LCX14MTC
ICT961
RESETN
7,23
[for IC36]
VCC
C182
0.1uF
C167
0.1uF
JP2
1
2
3
T3B-SQ
NO ASM
LV_QACKN
LV_QACKN
4
1-2 : Normal
2-3 : for ICE which doesn't drive QACK
QACKN
IC1A
1
2
3
74LCX08MTC
IC28B
4
5
6
74LCX08MTC
LV_HRSTN
LV_HRSTN
4,9,16,21,23
C150
0.1uF
NO ASM
[for IC28]
VCC
C160
0.1uF
IC28C
9
10
8
74LCX08MTC
ICT913
PCIRSTN
13
C151
0.1uF
NO ASM
IC1C
9
10
8
74LCX08MTC
ICT1233
IC1D
12
13
11
74LCX08MTC
ICT1234
LV_TRSTN
LV_TRSTN
4
[for IC1]
VCC
C24
0.1uF
IC28D
12
13
11
74LCX08MTC
ICT1254
R624
33
LV_HRSTN1
9,22

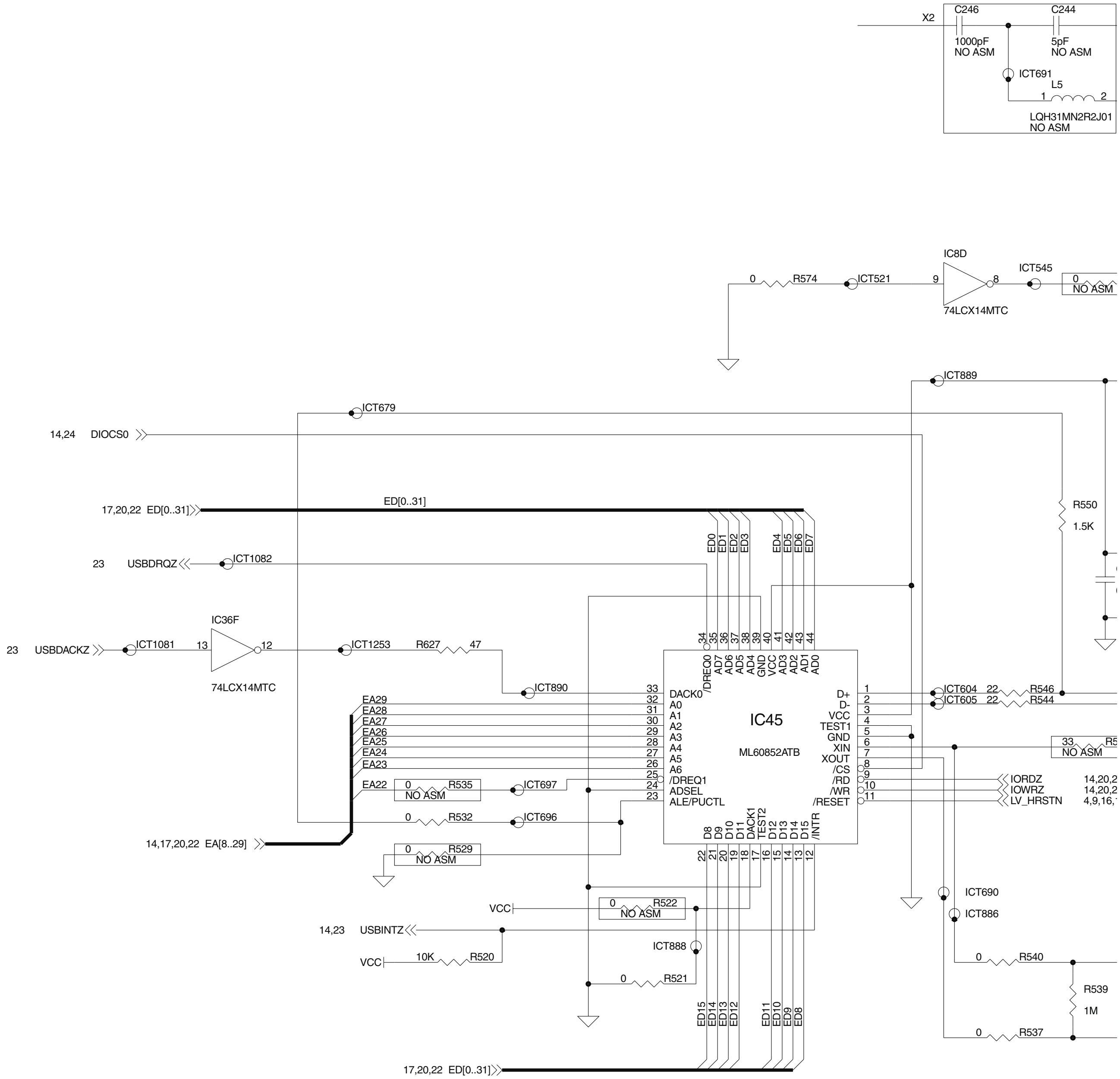
PRINT CONTROL PWB (D8501A IO BUS BUFFER)

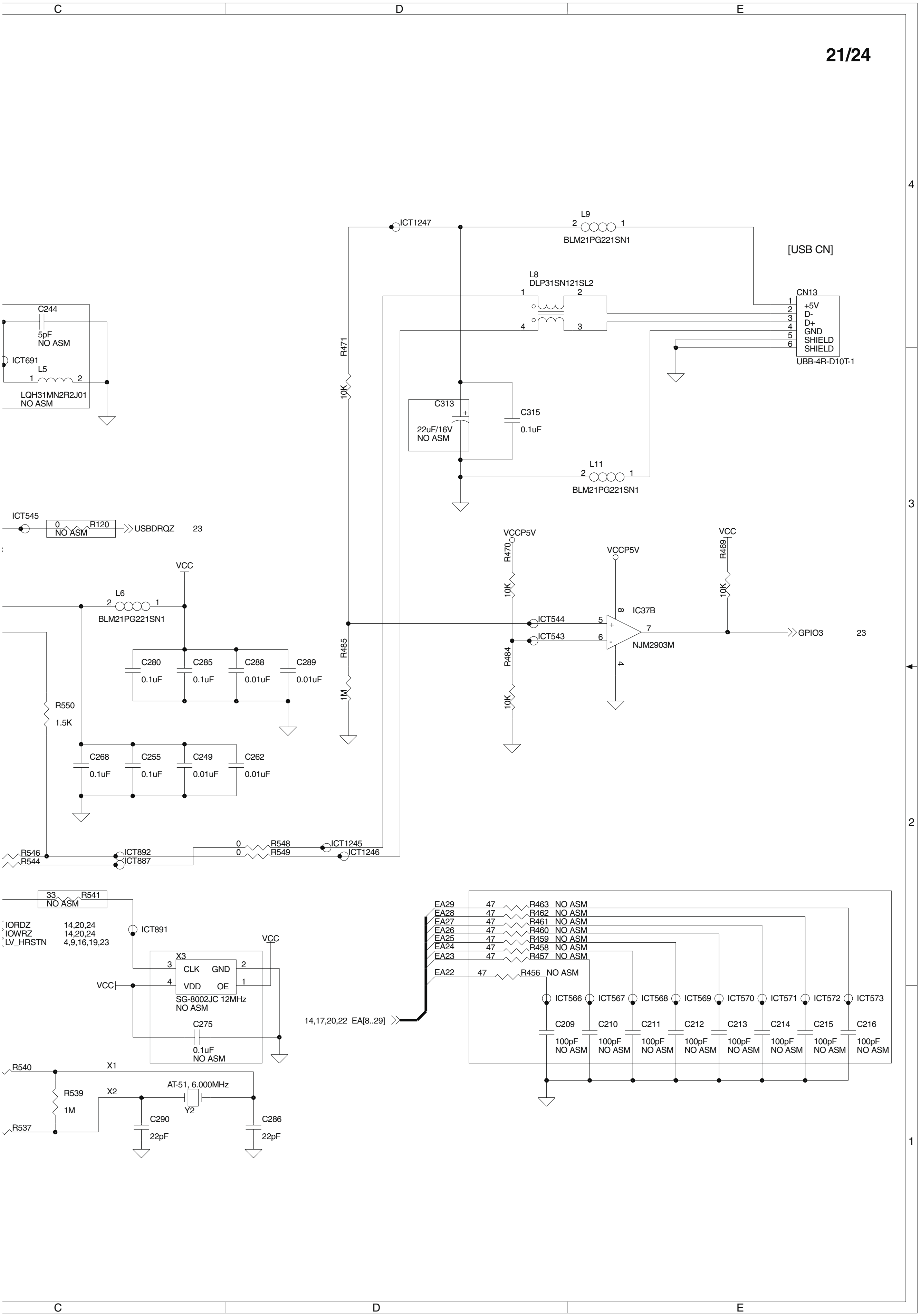


IC16
IC17
IC14
IC15
74LCX245MTC
IC23
IC24
IC25
74LCX244MTC
BR13
BR14
BR15
BR16
BR17
BR18
BR19
BR20
33
C72 0.1uF
C66 0.01uF
C67 0.1uF
C73 0.01uF
C70 0.1uF
C64 0.01uF
C71 0.1uF
C65 0.01uF
C93 0.1uF
C99 0.01uF
C92 0.1uF
C98 0.01uF
C94 0.1uF
VCC
GND
DATA_DIR 14,24
EXTOEZ 14,24
24 SD[0..31]
SD[0..31]
ED[0..31]
ED[0..31] 17,21
17,21,
R625 33
EIORDZ 17,22
ICT1255
14,23 SA1
14,21,24 IOWRZ
14,21,24 IORDZ
R626 33
EIOWRZ
ICT1256
2,14,24 SA[2..23]
SA[2..23]
PEA[8..29]
EA29 (LSB) = CA29
EA2 = CA2

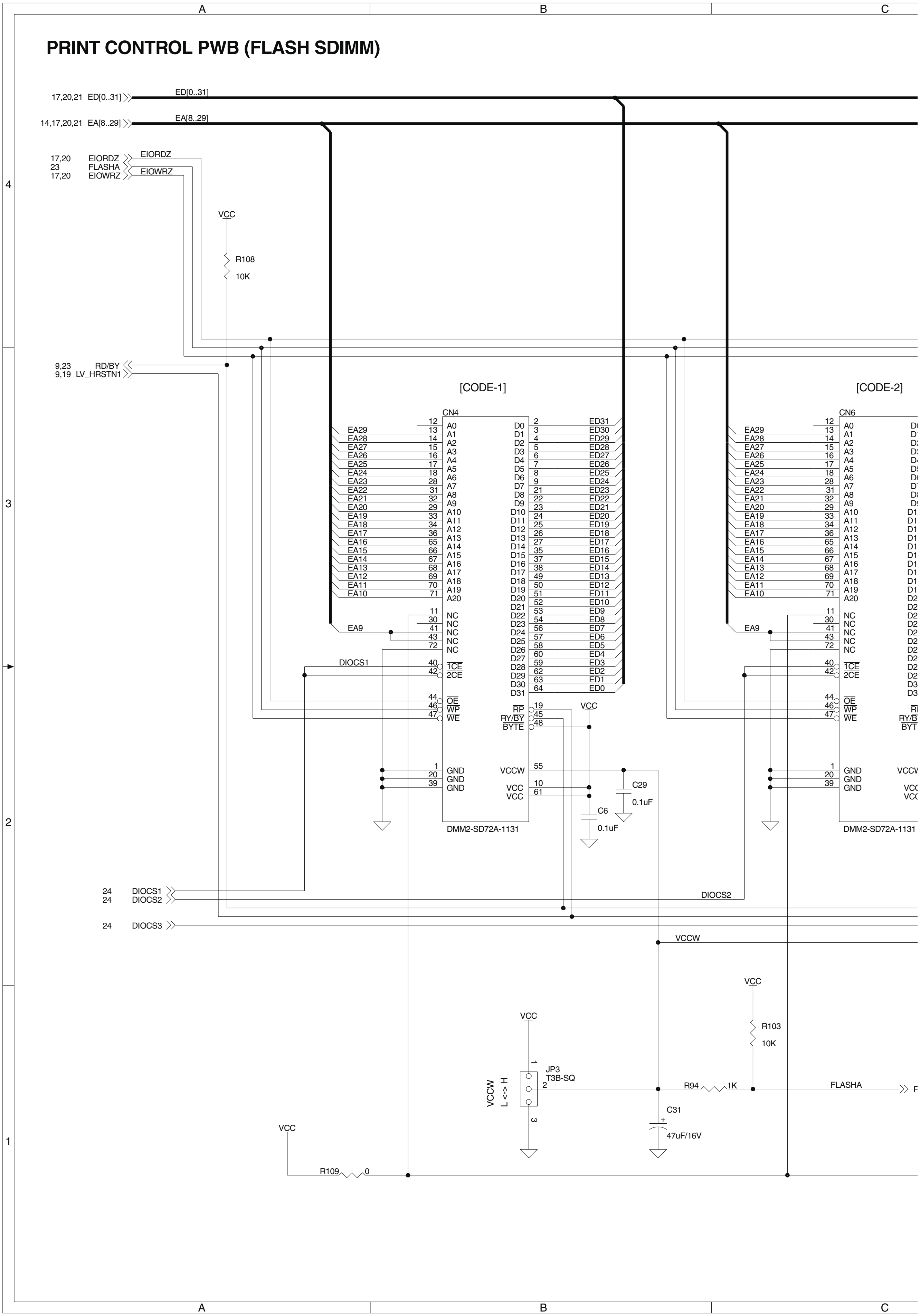

C
D
E
4
3
2
1
VCC
0 R173
0 R175
ICT541
0 R155
NO ASM
0 R172
NO ASM
17,21,22 ED[0..31]
BR8 10K
ED14 8 1
ED30 7 2
ED15 6 3
ED31 5 4
BR6 10K
ED10 8 1
ED26 7 2
ED11 6 3
ED27 5 4
BR7 10K
ED12 8 1
ED28 7 2
ED13 6 3
ED29 5 4
BR5 10K
ED8 8 1
ED24 7 2
ED9 6 3
ED25 5 4
VCC
0 R151
0 R152
ICT749
0 R153
NO ASM
0 R154
NO ASM
17,21,22 ED[0..31]
BR12 10K
ED6 8 1
ED22 7 2
ED7 6 3
ED23 5 4
BR9 10K
ED16 8 1
ED0 7 2
ED17 6 3
ED1 5 4
BR11 10K
ED4 8 1
ED20 7 2
ED5 6 3
ED21 5 4
BR10 10K
ED18 8 1
ED2 7 2
ED3 6 3
ED19 5 4
LSB) = CA29
CA2
ED[0..31] 17,21,22
33 EIOWRZ 17,22
56
VCC
C94 0.1uF
C100 0.01uF
BR46 33
PEA8 ICT954 4 5 EA8
PEA9 ICT955 3 6 EA9
PEA10 ICT934 2 7 EA10
PEA11 ICT935 1 8 EA11
BR39 33
PEA19 ICT943 8 1 EA19
PEA14 ICT938 7 2 EA14
PEA13 ICT937 6 3 EA13
PEA12 ICT936 5 4 EA12
BR38 33
PEA18 ICT942 5 4 EA18
PEA17 ICT941 6 3 EA17
PEA16 ICT940 7 2 EA16
PEA15 ICT939 8 1 EA15
BR45 33
PEA20 ICT944 4 5 EA20
PEA21 ICT945 3 6 EA21
PEA22 ICT946 2 7 EA22
PEA23 ICT947 1 8 EA23
BR37 33
PEA24 ICT948 8 1 EA24
PEA25 ICT949 7 2 EA25
PEA26 ICT950 6 3 EA26
PEA27 ICT951 5 4 EA27
BR44 33
4 5
PEA28 ICT952 3 6 EA28
PEA29 ICT953 2 7 EA29
1 8
EA[8..29] 14,17,21,22

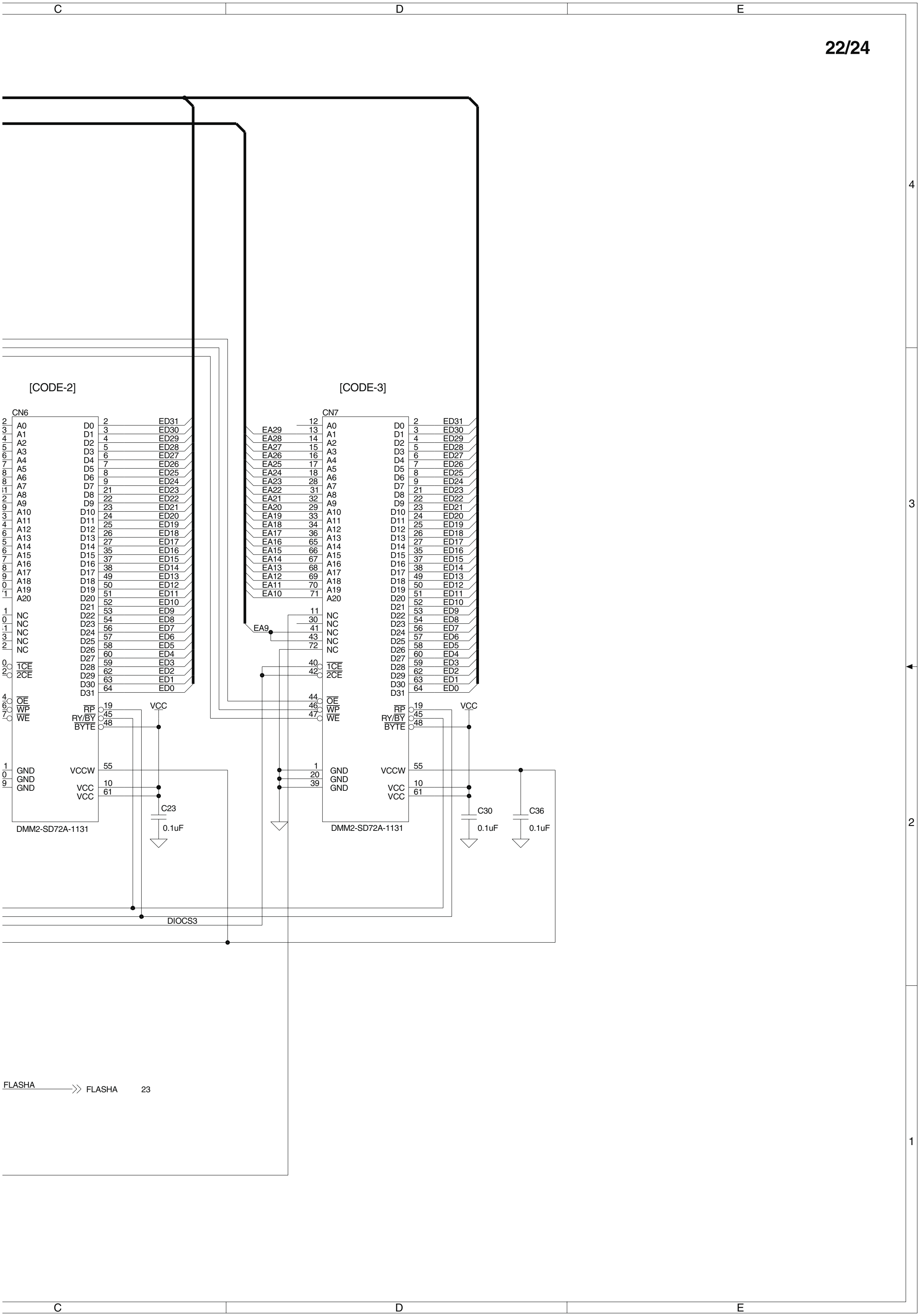
PRINT CONTROL PWB (USB INTERFACE (OKI))


X2
C246
1000pF
NO ASM
C244
5pF
NO ASM
ICT691
L5
1
2
LQH31MN2R2J01
NO ASM
IC8D
0
R574
ICT521
9
8
ICT545
0
NO ASM
74LCX14MTC
ICT889
ICT679
14,24 DIOCS0
R550
1.5K
17,20,22 ED[0..31]
ED[0..31]
ED0
ED1
ED2
ED3
ED4
ED5
ED6
ED7
23 USBDRQZ
ICT1082
IC36F
23 USBDACKZ
ICT1081
13
12
ICT1253
R627
47
74LCX14MTC
ICT890
34
35
36
37
38
39
40
41
42
43
44
/DREQ0
AD7
AD6
AD5
AD4
GND
VCC
AD3
AD2
AD1
AD0
33 DACK0
32 A0
31 A1
30 A2
29 A3
28 A4
27 A5
26 A6
25 /DREQ1
24 ADSEL
23 ALE/PUCTL
IC45
ML60852ATB
D+ 1
D- 2
VCC 3
TEST1 4
GND 5
XIN 6
XOUT 7
/CS 8
/RD 9
/WR 10
/RESET 11
EA29
EA28
EA27
EA26
EA25
EA24
EA23
EA22
0
R535
NO ASM
ICT697
0
R532
ICT696
0
R529
NO ASM
14,17,20,22 EA[8..29]
22
21
20
19
18
17
16
15
14
13
12
D8
D9
D10
D11
DACK1
TEST2
D12
D13
D14
D15
/INTR
ICT604
22
R546
ICT605
22
R544
33
R5
NO ASM
IORDZ
14,20,2
IOWRZ
14,20,2
LV_HRSTN
4,9,16,
VCC
0
R522
NO ASM
14,23 USBINTZ
ICT888
VCC
10K
R520
0
R521
ICT690
ICT886
0
R540
R539
1M
0
R537
ED15
ED14
ED13
ED12
ED11
ED10
ED9
ED8
17,20,22 ED[0..31]

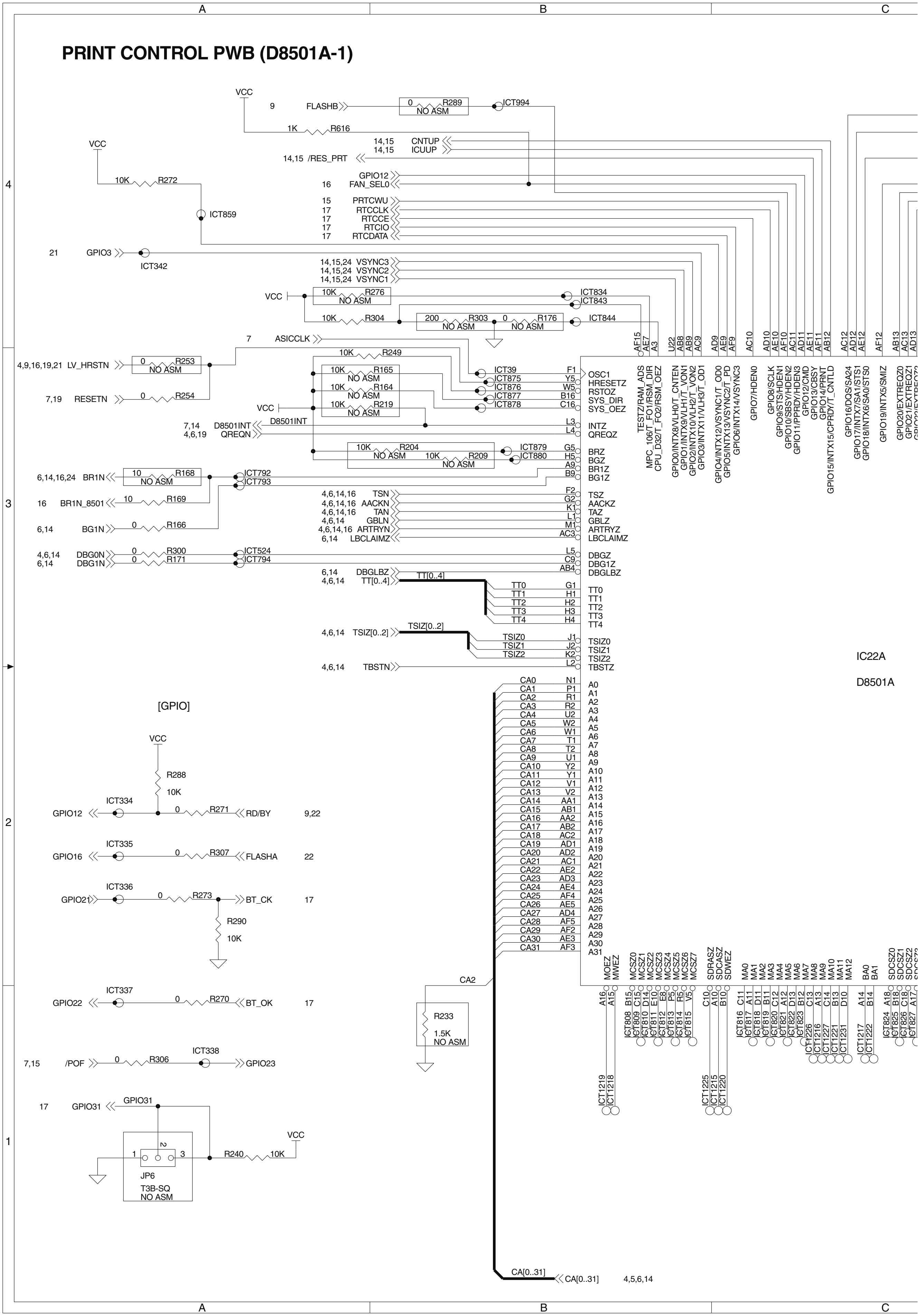

C
D
E
4
3
2
1
[USB CN]
CN13
1 +5V
2 D-
3 D+
4 GND
5 SHIELD
6 SHIELD
UBB-4R-D10T-1
L9
BLM21PG221SN1
ICT1247
L8
DLP31SN121SL2
R471
10K
C313
22uF/16V
NO ASM
C315
0.1uF
L11
BLM21PG221SN1
C244
5pF
NO ASM
ICT691
L5
LQH31MN2R2J01
NO ASM
ICT545
0 R120
NO ASM
USBDRQZ 23
VCC
L6
BLM21PG221SN1
C280 0.1uF
C285 0.1uF
C288 0.01uF
C289 0.01uF
R550
1.5K
C268 0.1uF
C255 0.1uF
C249 0.01uF
C262 0.01uF
VCCP5V
R470
10K
VCCP5V
IC37B
NJM2903M
ICT544
ICT543
R484
10K
R485
1M
VCC
R469
10K
GPIO3 23
R546
R544
ICT892
ICT887
0 R548
0 R549
ICT1245
ICT1246
33 R541
NO ASM
IORDZ 14,20,24
IOWRZ 14,20,24
LV_HRSTN 4,9,16,19,23
ICT891
X3
CLK GND
VDD OE
SG-8002JC 12MHz
NO ASM
VCC
C275
0.1uF
NO ASM
R540
X1
R539
1M
X2
AT-51, 6.000MHz
Y2
C290
22pF
C286
22pF
R537
EA29 47 R463 NO ASM
EA28 47 R462 NO ASM
EA27 47 R461 NO ASM
EA26 47 R460 NO ASM
EA25 47 R459 NO ASM
EA24 47 R458 NO ASM
EA23 47 R457 NO ASM
EA22 47 R456 NO ASM
14,17,20,22 EA[8..29]
ICT566 ICT567 ICT568 ICT569 ICT570 ICT571 ICT572 ICT573
C209 C210 C211 C212 C213 C214 C215 C216
100pF NO ASM

PRINT CONTROL PWB (FLASH SDIMM)

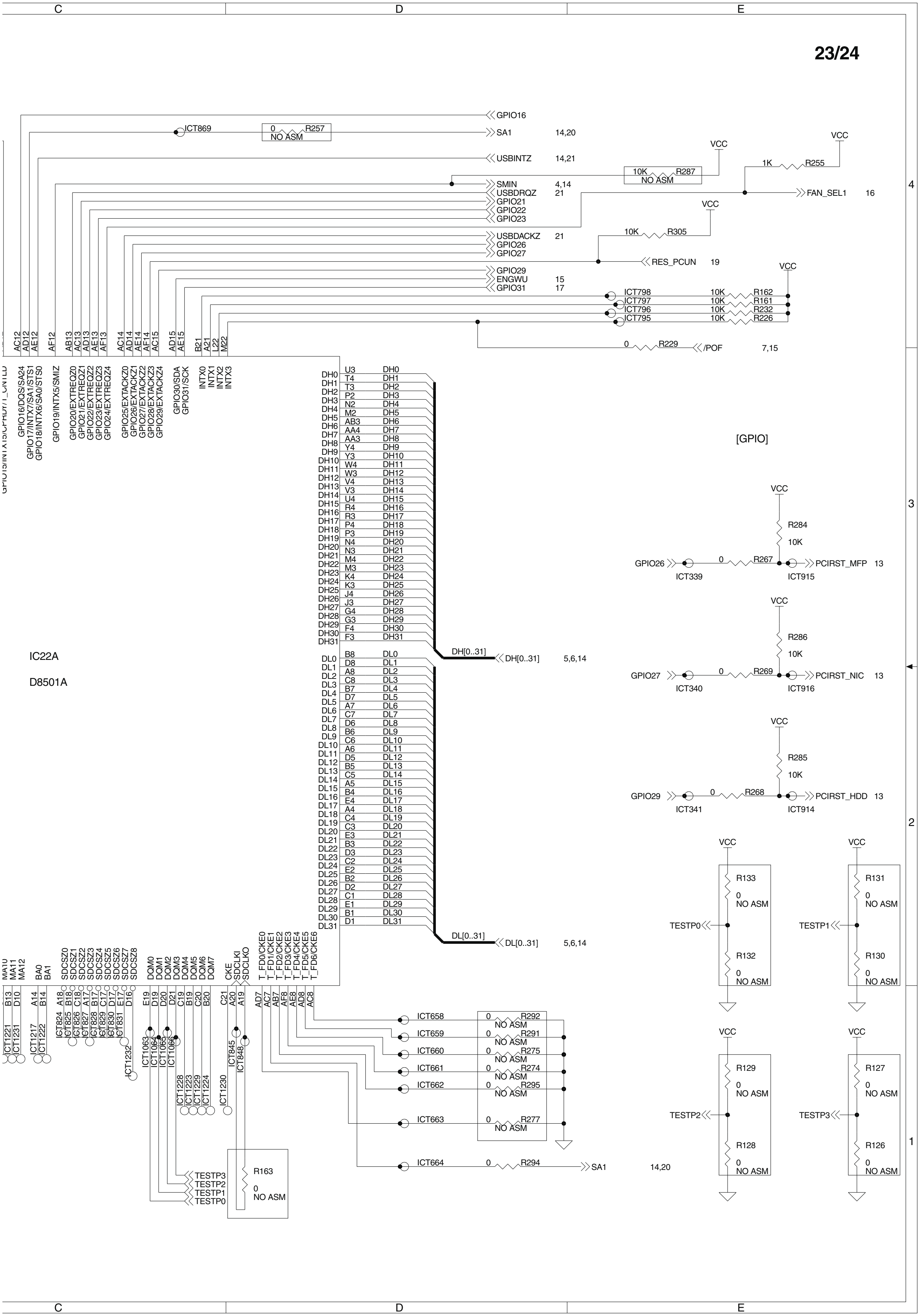

A
B
C
4
3
2
1
17,20,21 ED[0..31]
ED[0..31]
14,17,20,21 EA[8..29]
EA[8..29]
17,20 EIORDZ
23 FLASHA
17,20 EIOWRZ
EIORDZ
EIOWRZ
VCC
R108
10K
9,23 RD/BY
9,19 LV_HRSTN1
[CODE-1]
[CODE-2]
CN4
CN6
EA29 EA28 EA27 EA26 EA25 EA24 EA23 EA22 EA21 EA20 EA19 EA18 EA17 EA16 EA15 EA14 EA13 EA12 EA11 EA10
EA9
A0 A1 A2 A3 A4 A5 A6 A7 A8 A9 A10 A11 A12 A13 A14 A15 A16 A17 A18 A19 A20
12 13 14 15 16 17 18 28 31 32 29 33 34 36 65 66 67 68 69 70 71
NC NC NC NC NC
11 30 41 43 72
DIOCS1
40 TCE
42 2CE
44 OE
46 WP
47 WE
1 20 39 GND GND GND
D0 D1 D2 D3 D4 D5 D6 D7 D8 D9 D10 D11 D12 D13 D14 D15 D16 D17 D18 D19 D20 D21 D22 D23 D24 D25 D26 D27 D28 D29 D30 D31
2 3 4 5 6 7 8 9 21 22 23 24 25 26 27 35 37 38 49 50 51 52 53 54 56 57 58 60 59 62 63 64
ED31 ED30 ED29 ED28 ED27 ED26 ED25 ED24 ED23 ED22 ED21 ED20 ED19 ED18 ED17 ED16 ED15 ED14 ED13 ED12 ED11 ED10 ED9 ED8 ED7 ED6 ED5 ED4 ED3 ED2 ED1 ED0
RP 19
RY/BY 45
BYTE 48
VCC
VCCW 55
VCC 10
VCC 61
C29
0.1uF
C6
0.1uF
DMM2-SD72A-1131
24 DIOCS1
24 DIOCS2
DIOCS2
24 DIOCS3
VCCW
VCC
R103
10K
VCC
1
JP3
T3B-SQ
2
3
VCCW
L <-> H
R94
1K
FLASHA
C31
+
47uF/16V
VCC
R109
0


C
D
E
22/24
4
3
2
1
[CODE-2]
[CODE-3]
CN6
CN7
A0
A1
A2
A3
A4
A5
A6
A7
A8
A9
A10
A11
A12
A13
A14
A15
A16
A17
A18
A19
A20
NC
1CE
2CE
OE
WP
WE
D0
D1
D2
D3
D4
D5
D6
D7
D8
D9
D10
D11
D12
D13
D14
D15
D16
D17
D18
D19
D20
D21
D22
D23
D24
D25
D26
D27
D28
D29
D30
D31
RP
RY/BY
BYTE
GND
VCCW
VCC
ED31
ED30
ED29
ED28
ED27
ED26
ED25
ED24
ED23
ED22
ED21
ED20
ED19
ED18
ED17
ED16
ED15
ED14
ED13
ED12
ED11
ED10
ED9
ED8
ED7
ED6
ED5
ED4
ED3
ED2
ED1
ED0
EA29
EA28
EA27
EA26
EA25
EA24
EA23
EA22
EA21
EA20
EA19
EA18
EA17
EA16
EA15
EA14
EA13
EA12
EA11
EA10
EA9
DMM2-SD72A-1131
DMM2-SD72A-1131
C23
0.1uF
C30
0.1uF
C36
0.1uF
DIOCS3
FLASHA
FLASHA
23

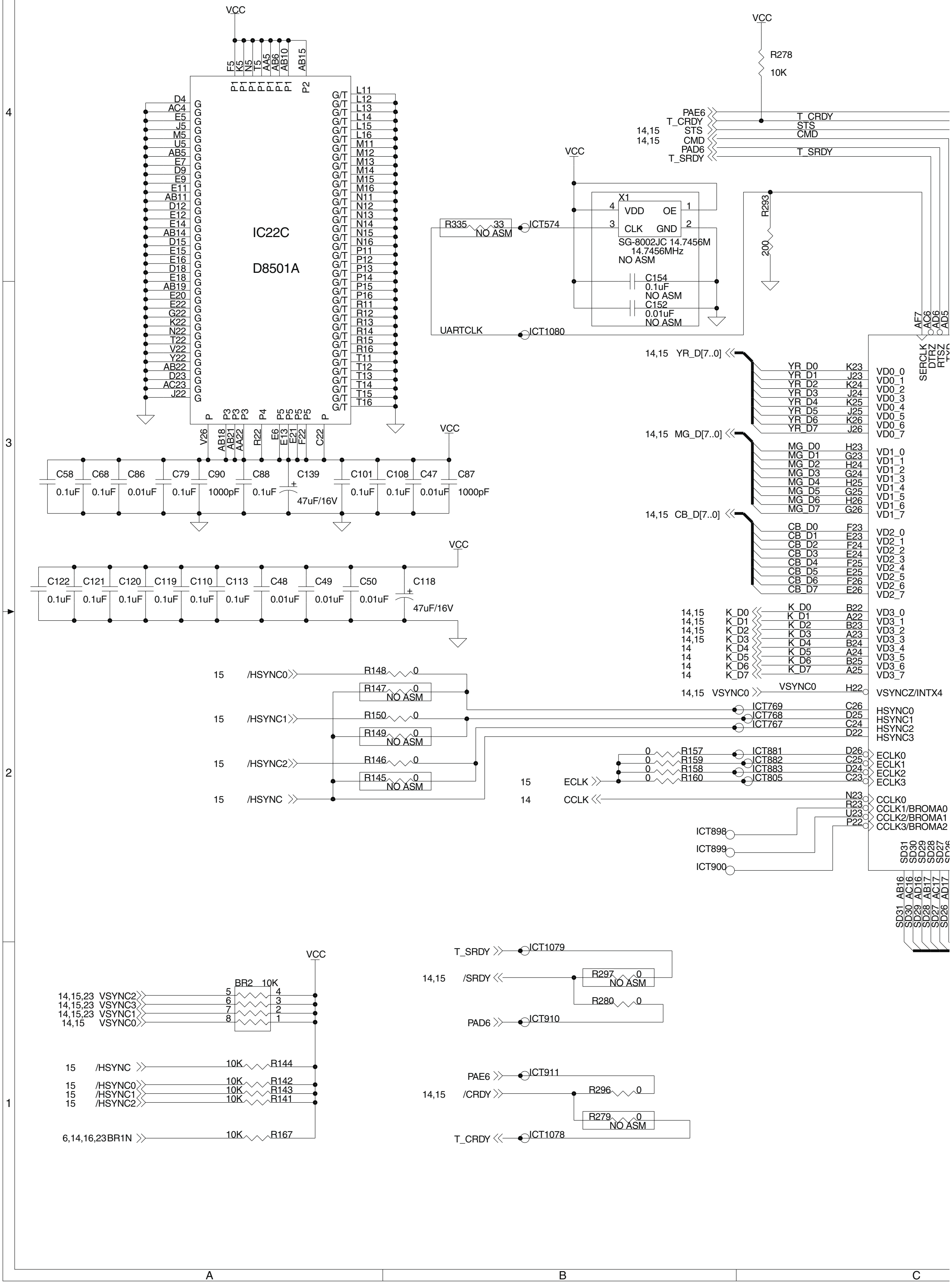
PRINT CONTROL PWB (D8501A-1)



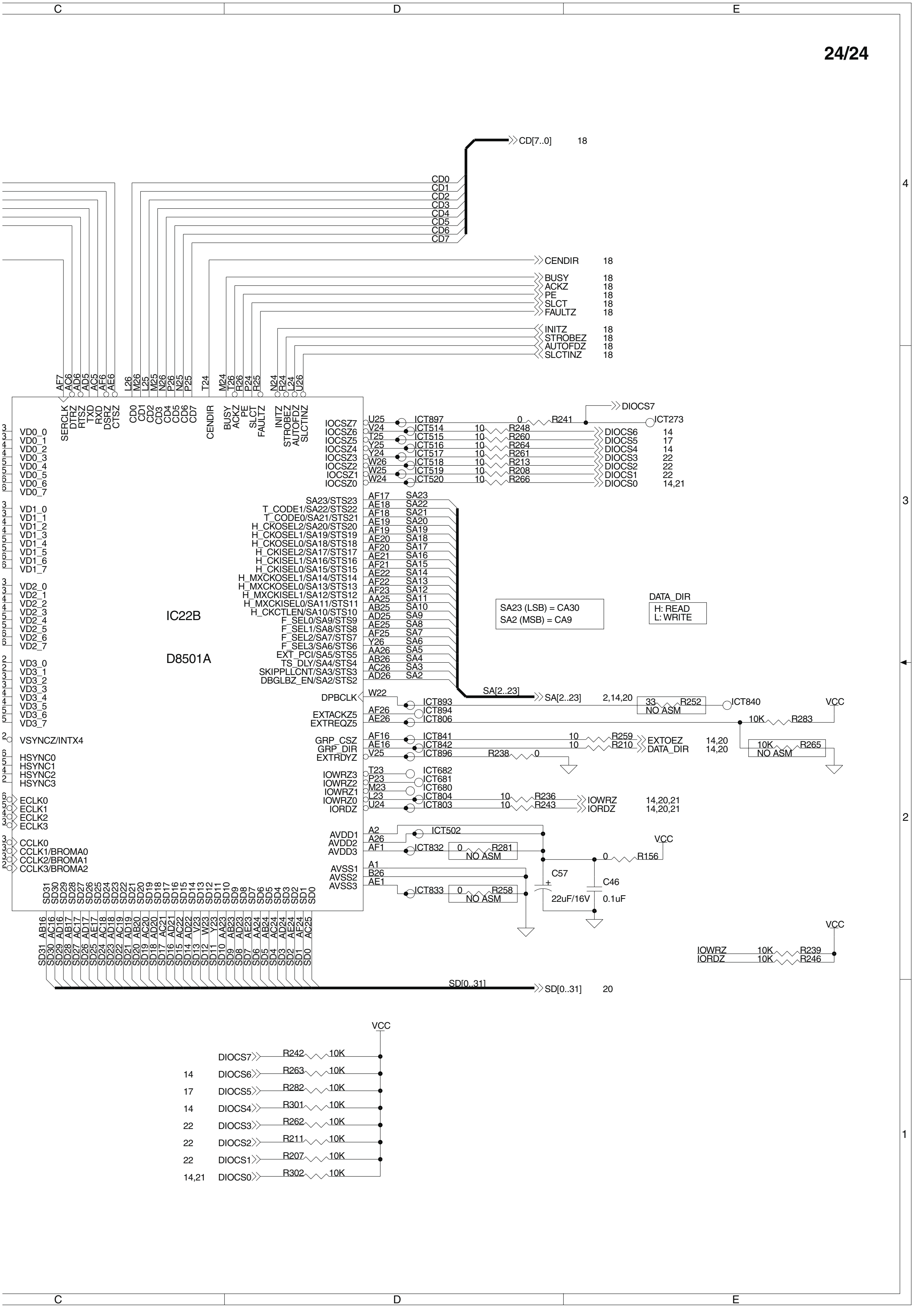
A
B
C
1
2
3
4
VCC
9 FLASHB
R289 0 NO ASM
ICT994
1K R616
14,15 CNTUP
14,15 ICUUP
14,15 /RES_PRT
10K R272
GPIO12
16 FAN_SEL0
ICT859
15 PRTCWU
17 RTCCLK
17 RTCCE
17 RTCIO
17 RTCDATA
21 GPIO3
ICT342
14,15,24 VSYNC3
14,15,24 VSYNC2
14,15,24 VSYNC1
10K R276 NO ASM
ICT834
ICT843
10K R304
200 R303 NO ASM
0 R176 NO ASM
ICT844
7 ASICCLK
4,9,16,19,21 LV_HRSTN
0 R253 NO ASM
7,19 RESETN
0 R254
10K R249
10K R165 NO ASM
10K R164 NO ASM
10K R219 NO ASM
ICT39
ICT875
ICT876
ICT877
ICT878
7,14 D8501INT
4,6,19 QREQN
10K R204 NO ASM
10K R209 NO ASM
ICT879
ICT880
6,14,16,24 BR1N
10 R168 NO ASM
ICT792
ICT793
16 BR1N_8501
10 R169
6,14 BG1N
0 R166
4,6,14,16 TSN
4,6,14,16 AACKN
4,6,14,16 TAN
4,6,14 GBLN
4,6,14,16 ARTRYN
6,14 LBCLAIMZ
4,6,14 DBG0N
6,14 DBG1N
0 R300
0 R171
ICT524
ICT794
6,14 DBGLBZ
4,6,14 TT[0..4]
TT0 TT1 TT2 TT3 TT4
4,6,14 TSIZ[0..2]
TSIZ0 TSIZ1 TSIZ2
4,6,14 TBSTN
CA0 … CA31
CA[0..31]
4,5,6,14
CA2
R233 1.5K NO ASM
OSC1
HRESETZ
RSTOZ
SYS_DIR
SYS_OEZ
INTZ
QREQZ
BRZ
BGZ
BR1Z
BG1Z
TSZ
AACKZ
TAZ
GBLZ
ARTRYZ
LBCLAIMZ
DBGZ
DBG1Z
DBGLBZ
TBSTZ
A0 … A31
IC22A
D8501A
TESTZ/RAM_ADS
MPC_106/T_FO1/RSM_DIR
CPU_D32/T_FO2/RSM_OEZ
GPIO0/INTX8/VLH0/T_CNTEN
GPIO1/INTX9/VLH1/T_VON1
GPIO2/INTX10/VLH2/T_VON2
GPIO3/INTX11/VLH3/T_OD1
GPIO4/INTX12/VSYNC1/T_OD0
GPIO5/INTX13/VSYNC2/T_PD
GPIO6/INTX14/VSYNC3
GPIO7/HDEN0
GPIO8/SCLK
GPIO9/STS/HDEN1
GPIO10/SBSY/HDEN2
GPIO11/PPRDY/HDEN3
GPIO12/CMD
GPIO13/CBSY
GPIO14/PRNT
GPIO15/INTX15/CPRDY/T_CNTLD
GPIO16/DQS/SA24
GPIO17/INTX7/SA1/STS1
GPIO18/INTX6/SA0/STS0
GPIO19/INTX5/SMIZ
GPIO20/EXTREQZ0
GPIO21/EXTREQZ1
MOEZ MWEZ
MCSZ0 MCSZ1 MCSZ2 MCSZ3 MCSZ4 MCSZ5 MCSZ6 MCSZ7
SDRASZ SDCASZ SDWEZ
MA0 MA1 MA2 MA3 MA4 MA5 MA6 MA7 MA8 MA9 MA10 MA11 MA12
BA0 BA1
SDCSZ0 SDCSZ1
ICT1219 ICT1218
ICT808 ICT809 ICT810 ICT811 ICT812 ICT813 ICT814 ICT815
ICT1225 ICT1215 ICT1220
ICT816 ICT817 ICT818 ICT819 ICT820 ICT821 ICT822 ICT823
ICT1226 ICT1216 ICT1227 ICT1221 ICT1231
ICT1217 ICT1222
ICT824 ICT825 ICT826 ICT827
[GPIO]
R288 10K
ICT334
GPIO12
0 R271
RD/BY 9,22
ICT335
GPIO16
0 R307
FLASHA 22
ICT336
GPIO21
0 R273
BT_CK 17
R290 10K
ICT337
GPIO22
0 R270
BT_OK 17
7,15 /POF
0 R306
ICT338
GPIO23
17 GPIO31
JP6 T3B-SQ NO ASM
R240 10K


23/24
[GPIO]
IC22A
D8501A
GPIO16
SA1 14,20
ICT869
0 R257 NO ASM
USBINTZ 14,21
SMIN 4,14
USBDRQZ 21
GPIO21
GPIO22
GPIO23
USBDACKZ 21
GPIO26
GPIO27
GPIO29
ENGWU 15
GPIO31 17
10K R287 NO ASM
1K R255
FAN_SEL1 16
10K R305
RES_PCUN 19
ICT798 10K R162
ICT797 10K R161
ICT796 10K R232
ICT795 10K R226
0 R229 /POF 7,15
VCC
AC12 AD12 AE12 AF12 AB13 AC13 AD13 AE13 AF13 AC14 AD14 AE14 AF14 AC15 AD15 AE15 B21 A21 L22 M22
GPIO16/DQS/SA24
GPIO17/INTX7/SA1/STS1
GPIO18/INTX6/SA0/STS0
GPIO19/INTX5/SMIZ
GPIO20/EXTREQZ0
GPIO21/EXTREQZ1
GPIO22/EXTREQZ2
GPIO23/EXTREQZ3
GPIO24/EXTREQZ4
GPIO25/EXTACKZ0
GPIO26/EXTACKZ1
GPIO27/EXTACKZ2
GPIO28/EXTACKZ3
GPIO29/EXTACKZ4
GPIO30/SDA
GPIO31/SCK
INTX0 INTX1 INTX2 INTX3
DH0–DH31: U3 T4 T3 P2 N2 M2 AB3 AA4 AA3 Y4 Y3 W4 W3 V4 V3 U4 R4 R3 P4 P3 N4 N3 M4 M3 K4 K3 J4 J3 G4 G3 F4 F3
DH[0..31]
DH[0..31] 5,6,14
DL0–DL31: B8 D8 A8 C8 B7 D7 A7 C7 D6 B6 C6 A6 D5 B5 C5 A5 B4 E4 A4 C4 C3 E3 B3 D3 C2 E2 B2 D2 C1 E1 B1 D1
DL[0..31]
DL[0..31] 5,6,14
MA10 MA11 MA12 BA0 BA1
SDCSZ0 SDCSZ1 SDCSZ2 SDCSZ3 SDCSZ4 SDCSZ5 SDCSZ6 SDCSZ7 SDCSZ8
DQM0 DQM1 DQM2 DQM3 DQM4 DQM5 DQM6 DQM7
CKE SDCLKI SDCLKO
T_FD0/CKE0 T_FD1/CKE1 T_FD2/CKE2 T_FD3/CKE3 T_FD4/CKE4 T_FD5/CKE5 T_FD6/CKE6
B13 D10 A14 B14 A18 B18 C18 A17 B17 C17 E17 D16 E19 D19 D20 D21 C19 B19 C20 B20 C21 A20 A19 AD7 AC7 AB7 AF8 AE8 AD8 AC8
ICT1221 ICT1231 ICT1217 ICT1222 ICT824 ICT825 ICT826 ICT827 ICT828 ICT829 ICT830 ICT831 ICT1232 ICT1063 ICT1064 ICT1065 ICT1066 ICT1228 ICT1223 ICT1229 ICT1224 ICT1230 ICT845 ICT848
ICT658 0 R292 NO ASM
ICT659 0 R291 NO ASM
ICT660 0 R275 NO ASM
ICT661 0 R274 NO ASM
ICT662 0 R295 NO ASM
ICT663 0 R277 NO ASM
ICT664 0 R294 SA1 14,20
TESTP3 TESTP2 TESTP1 TESTP0
R163 0 NO ASM
R284 10K
GPIO26 ICT339 0 R267 ICT915 PCIRST_MFP 13
R286 10K
GPIO27 ICT340 0 R269 ICT916 PCIRST_NIC 13
R285 10K
GPIO29 ICT341 0 R268 ICT914 PCIRST_HDD 13
R133 0 NO ASM
R132 0 NO ASM
TESTP0
R131 0 NO ASM
R130 0 NO ASM
TESTP1
R129 0 NO ASM
R128 0 NO ASM
TESTP2
R127 0 NO ASM
R126 0 NO ASM
TESTP3
C D E
4 3 2 1

PRINT CONTROL PWB (D8501A-2)



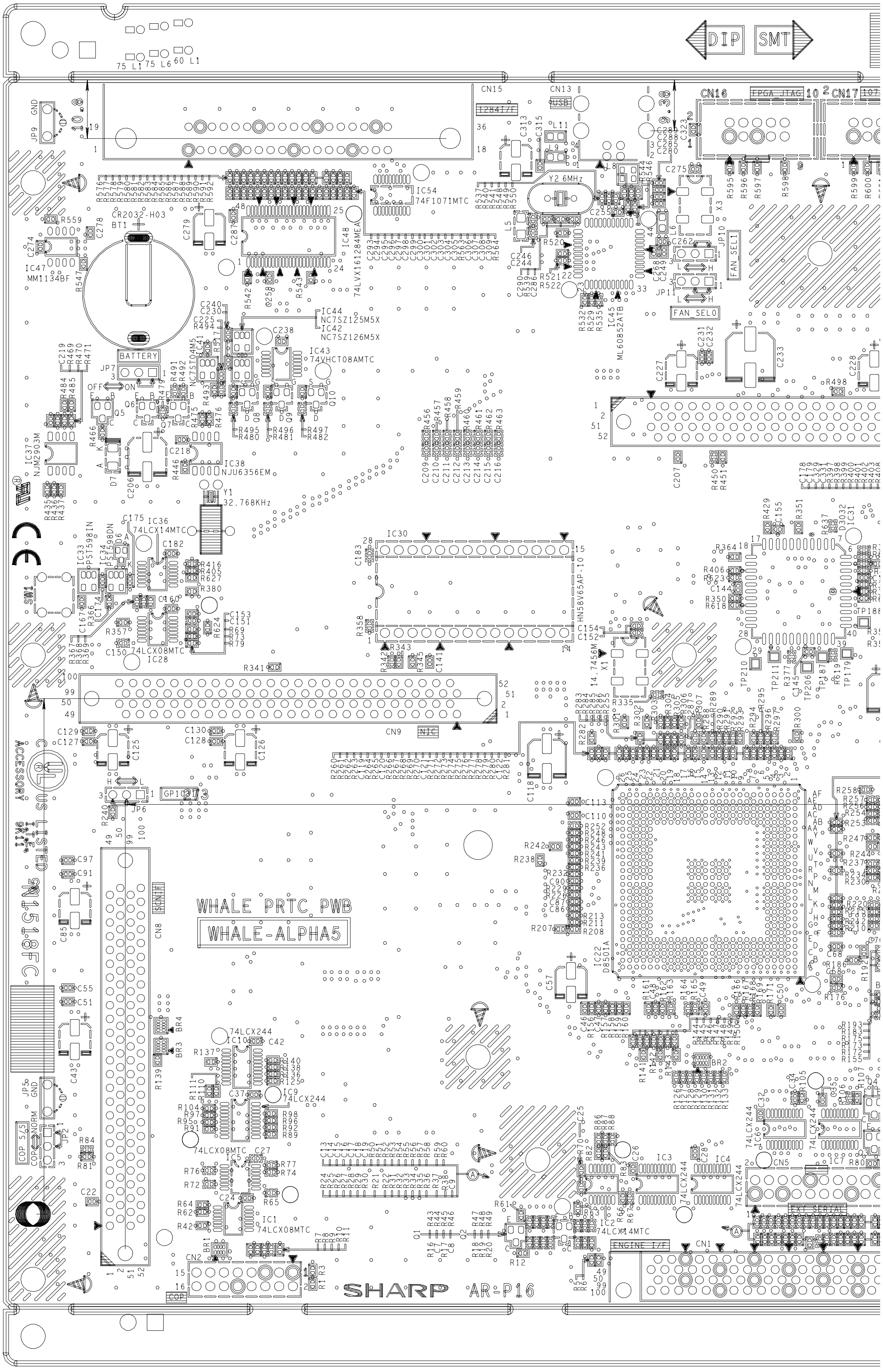
A
B
C
1
2
3
4
VCC
F5 K5 N5 T5 AA5 AB6 AB10 AB15
P1 P1 P1 P1 P1 P1 P2
IC22C
D8501A
D4 AC4 E5 J5 M5 U5 AB5 E7 D9 E9 E11 AB11 D12 E12 E14 AB14 D15 E15 E16 D18 E18 AB19 E20 E22 G22 K22 N22 T22 V22 Y22 AB22 D23 AC23 J22
G
G/T
L11 L12 L13 L14 L15 L16 M11 M12 M13 M14 M15 M16 N11 N12 N13 N14 N15 N16 P11 P12 P13 P14 P15 P16 R11 R12 R13 R14 R15 R16 T11 T12 T13 T14 T15 T16
P P3 P3 P3 P4 P5 P5 P5 P5 P
V26 AB18 AB21 AA22 R22 E6 E13 F21 F22 C22
C58 0.1uF
C68 0.1uF
C86 0.01uF
C79 0.1uF
C90 1000pF
C88 0.1uF
C139 47uF/16V
C101 0.1uF
C108 0.1uF
C47 0.01uF
C87 1000pF
C122 0.1uF
C121 0.1uF
C120 0.1uF
C119 0.1uF
C110 0.1uF
C113 0.1uF
C48 0.01uF
C49 0.01uF
C50 0.01uF
C118 47uF/16V
R278 10K
PAE6
T_CRDY
14,15 STS
14,15 CMD
PAD6
T_SRDY
T_CRDY
STS
CMD
T_SRDY
X1
VDD OE
CLK GND
4 1 3 2
SG-8002JC 14.7456M
14.7456MHz
NO ASM
R335 33 NO ASM
ICT574
C154 0.1uF NO ASM
C152 0.01uF NO ASM
R293 200
UARTCLK
ICT1080
AF7 AC6 AD6 AD5
SERCLK DTRZ RTSZ
14,15 YR_D[7..0]
YR_D0 K23 VD0_0
YR_D1 J23 VD0_1
YR_D2 K24 VD0_2
YR_D3 J24 VD0_3
YR_D4 K25 VD0_4
YR_D5 J25 VD0_5
YR_D6 K26 VD0_6
YR_D7 J26 VD0_7
14,15 MG_D[7..0]
MG_D0 H23 VD1_0
MG_D1 G23 VD1_1
MG_D2 H24 VD1_2
MG_D3 G24 VD1_3
MG_D4 H25 VD1_4
MG_D5 G25 VD1_5
MG_D6 H26 VD1_6
MG_D7 G26 VD1_7
14,15 CB_D[7..0]
CB_D0 F23 VD2_0
CB_D1 E23 VD2_1
CB_D2 F24 VD2_2
CB_D3 E24 VD2_3
CB_D4 F25 VD2_4
CB_D5 E25 VD2_5
CB_D6 F26 VD2_6
CB_D7 E26 VD2_7
14,15 K_D0 K_D0 B22 VD3_0
14,15 K_D1 K_D1 A22 VD3_1
14,15 K_D2 K_D2 B23 VD3_2
14,15 K_D3 K_D3 A23 VD3_3
14 K_D4 K_D4 B24 VD3_4
14 K_D5 K_D5 A24 VD3_5
14 K_D6 K_D6 B25 VD3_6
14 K_D7 K_D7 A25 VD3_7
14,15 VSYNC0 VSYNC0 H22 VSYNCZ/INTX4
15 /HSYNC0
R148 0
R147 0 NO ASM
15 /HSYNC1
R150 0
R149 0 NO ASM
15 /HSYNC2
R146 0
R145 0 NO ASM
15 /HSYNC
ICT769 C26 HSYNC0
ICT768 D25 HSYNC1
ICT767 C24 HSYNC2
D22 HSYNC3
0 R157 ICT881 D26 ECLK0
0 R159 ICT882 C25 ECLK1
0 R158 ICT883 D24 ECLK2
0 R160 ICT805 C23 ECLK3
15 ECLK
14 CCLK
N23 CCLK0
R23 CCLK1/BROMA0
U23 CCLK2/BROMA1
P22 CCLK3/BROMA2
ICT898
ICT899
ICT900
SD31 SD30 SD29 SD28 SD27 SD26
SD31 AB16 SD30 AC16 SD29 AD16 SD28 AB17 SD27 AC17 SD26 AD17
VCC
BR2 10K
14,15,23 VSYNC2 5 4
14,15,23 VSYNC3 6 3
14,15,23 VSYNC1 7 2
14,15 VSYNC0 8 1
15 /HSYNC 10K R144
15 /HSYNC0 10K R142
15 /HSYNC1 10K R143
15 /HSYNC2 10K R141
6,14,16,23BR1N 10K R167
T_SRDY ICT1079
14,15 /SRDY
R297 0 NO ASM
R280 0
PAD6 ICT910
PAE6 ICT911
14,15 /CRDY
R296 0
R279 0 NO ASM
T_CRDY ICT1078

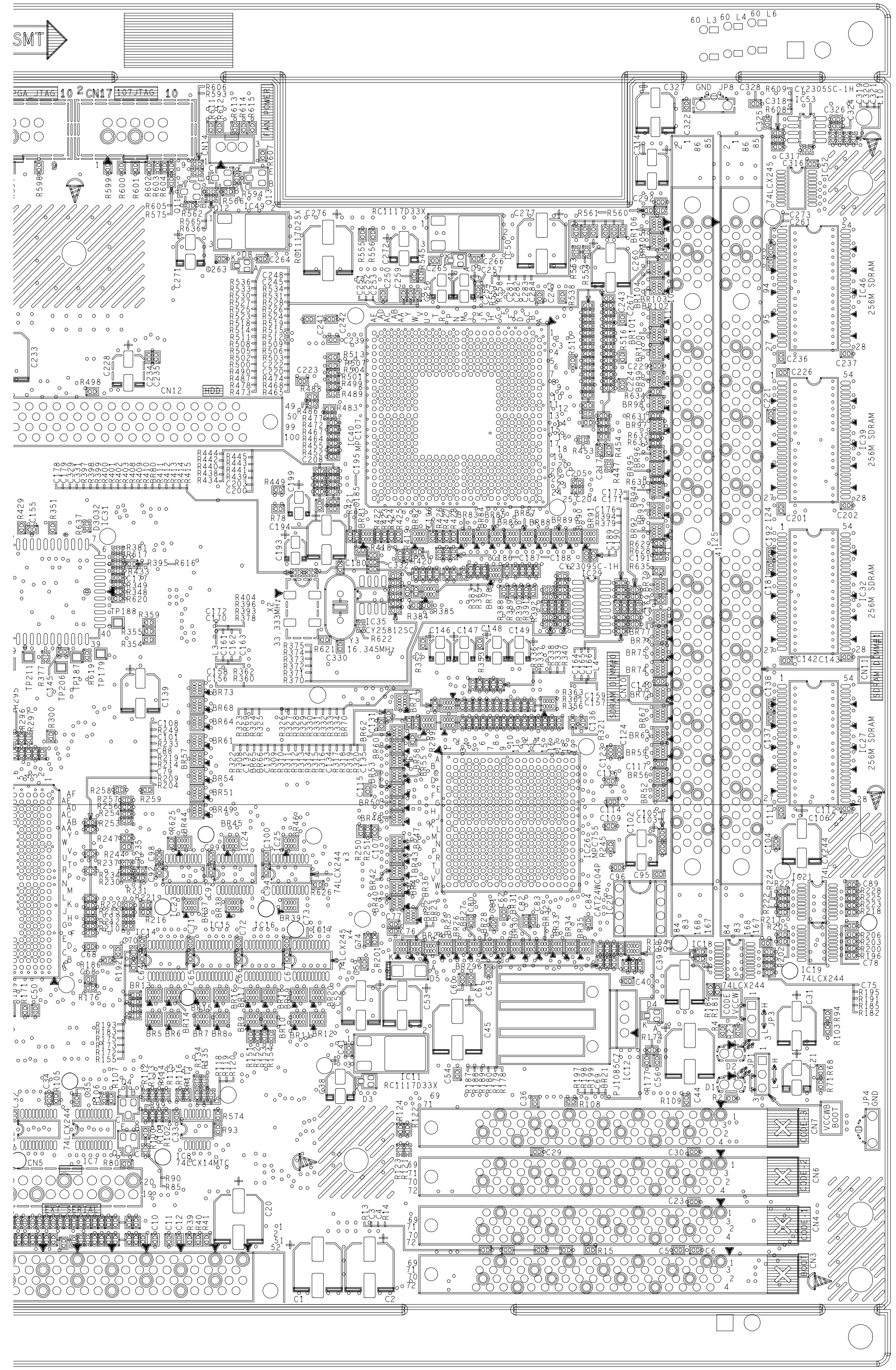

C
D
E
4
3
2
1
CD[7..0] 18
CD0
CD1
CD2
CD3
CD4
CD5
CD6
CD7
CENDIR 18
BUSY 18
ACKZ 18
PE 18
SLCT 18
FAULTZ 18
INITZ 18
STROBEZ 18
AUTOFDZ 18
SLCTINZ 18
AF7 AC6 AD6 AD5 AC5 AF6 AE6
L26 M26 L25 M25 N26 P26 N25 P25
T24
M24 T26 R26 P24 R25
N24 R24 L24 U26
SERCLK DTRZ RTSZ TXD RXD DSRZ CTSZ
CD0 CD1 CD2 CD3 CD4 CD5 CD6 CD7
CENDIR
BUSY ACKZ PE SLCT FAULTZ
INITZ STROBEZ AUTOFDZ SLCTINZ
IC22B
D8501A
VD0_0
VD0_1
VD0_2
VD0_3
VD0_4
VD0_5
VD0_6
VD0_7
VD1_0
VD1_1
VD1_2
VD1_3
VD1_4
VD1_5
VD1_6
VD1_7
VD2_0
VD2_1
VD2_2
VD2_3
VD2_4
VD2_5
VD2_6
VD2_7
VD3_0
VD3_1
VD3_2
VD3_3
VD3_4
VD3_5
VD3_6
VD3_7
VSYNCZ/INTX4
HSYNC0
HSYNC1
HSYNC2
HSYNC3
ECLK0
ECLK1
ECLK2
ECLK3
CCLK0
CCLK1/BROMA0
CCLK2/BROMA1
CCLK3/BROMA2
DIOCS7
IOCSZ7 U25 ICT897 0 R241 ICT273
IOCSZ6 V24 ICT514 10 R248 DIOCS6 14
IOCSZ5 T25 ICT515 10 R260 DIOCS5 17
IOCSZ4 Y25 ICT516 10 R264 DIOCS4 14
IOCSZ3 Y24 ICT517 10 R261 DIOCS3 22
IOCSZ2 W26 ICT518 10 R213 DIOCS2 22
IOCSZ1 W25 ICT519 10 R208 DIOCS1 22
IOCSZ0 W24 ICT520 10 R266 DIOCS0 14,21
SA23/STS23 AF17 SA23
T_CODE1/SA22/STS22 AE18 SA22
T_CODE0/SA21/STS21 AF18 SA21
H_CKOSEL2/SA20/STS20 AE19 SA20
H_CKOSEL1/SA19/STS19 AF19 SA19
H_CKOSEL0/SA18/STS18 AE20 SA18
H_CKISEL2/SA17/STS17 AF20 SA17
H_CKISEL1/SA16/STS16 AE21 SA16
H_CKISEL0/SA15/STS15 AF21 SA15
H_MXCKOSEL1/SA14/STS14 AE22 SA14
H_MXCKOSEL0/SA13/STS13 AF22 SA13
H_MXCKISEL1/SA12/STS12 AF23 SA12
H_MXCKISEL0/SA11/STS11 AA25 SA11
H_CKCTLEN/SA10/STS10 AB25 SA10
F_SEL0/SA9/STS9 AD25 SA9
F_SEL1/SA8/STS8 AE25 SA8
F_SEL2/SA7/STS7 AF25 SA7
F_SEL3/SA6/STS6 Y26 SA6
EXT_PCI/SA5/STS5 AA26 SA5
TS_DLY/SA4/STS4 AB26 SA4
SKIPPLLCNT/SA3/STS3 AC26 SA3
DBGLBZ_EN/SA2/STS2 AD26 SA2
SA[2..23]
SA[2..23] 2,14,20
SA23 (LSB) = CA30
SA2 (MSB) = CA9
DATA_DIR
H: READ
L: WRITE
DPBCLK W22 ICT893 33 R252 NO ASM ICT840 VCC
EXTACKZ5 AF26 ICT894
EXTREQZ5 AE26 ICT806 10K R283
GRP_CSZ AF16 ICT841 10 R259 EXTOEZ 14,20
GRP_DIR AE16 ICT842 10 R210 DATA_DIR 14,20
EXTRDYZ V25 ICT896 R238 0
10K R265 NO ASM
IOWRZ3 T23 ICT682
IOWRZ2 P23 ICT681
IOWRZ1 M23 ICT680
IOWRZ0 L23 ICT804 10 R236 IOWRZ 14,20,21
IORDZ U24 ICT803 10 R243 IORDZ 14,20,21
AVDD1 A2 ICT502
AVDD2 A26
AVDD3 AF1 ICT832 0 R281 NO ASM
0 R156
VCC
AVSS1 A1
AVSS2 B26
AVSS3 AE1 ICT833 0 R258 NO ASM
C57 + 22uF/16V
C46 0.1uF
SD31 SD30 SD29 SD28 SD27 SD26 SD25 SD24 SD23 SD22 SD21 SD20 SD19 SD18 SD17 SD16 SD15 SD14 SD13 SD12 SD11 SD10 SD9 SD8 SD7 SD6 SD5 SD4 SD3 SD2 SD1 SD0
SD31 AB16
SD30 AC16
SD29 AD16
SD28 AB17
SD27 AC17
SD26 AD17
SD25 AE17
SD24 AC18
SD23 AD18
SD22 AC19
SD21 AD19
SD20 AB20
SD19 AC20
SD18 AD20
SD17 AC21
SD16 AD21
SD15 AC22
SD14 AD22
SD13 V23
SD12 W23
SD11 Y23
SD10 AA23
SD9 AB23
SD8 AC23
SD7 AE23
SD6 AA24
SD5 AB24
SD4 AC24
SD3 AD24
SD2 AE24
SD1 AF24
SD0 AC25
SD[0..31]
SD[0..31] 20
VCC
IOWRZ 10K R239
IORDZ 10K R246
VCC
DIOCS7 R242 10K
14 DIOCS6 R263 10K
17 DIOCS5 R282 10K
14 DIOCS4 R301 10K
22 DIOCS3 R262 10K
22 DIOCS2 R211 10K
22 DIOCS1 R207 10K
14,21 DIOCS0 R302 10K

PRINT CONTROL PWB

PARTS LAYOUT / 部品配置図

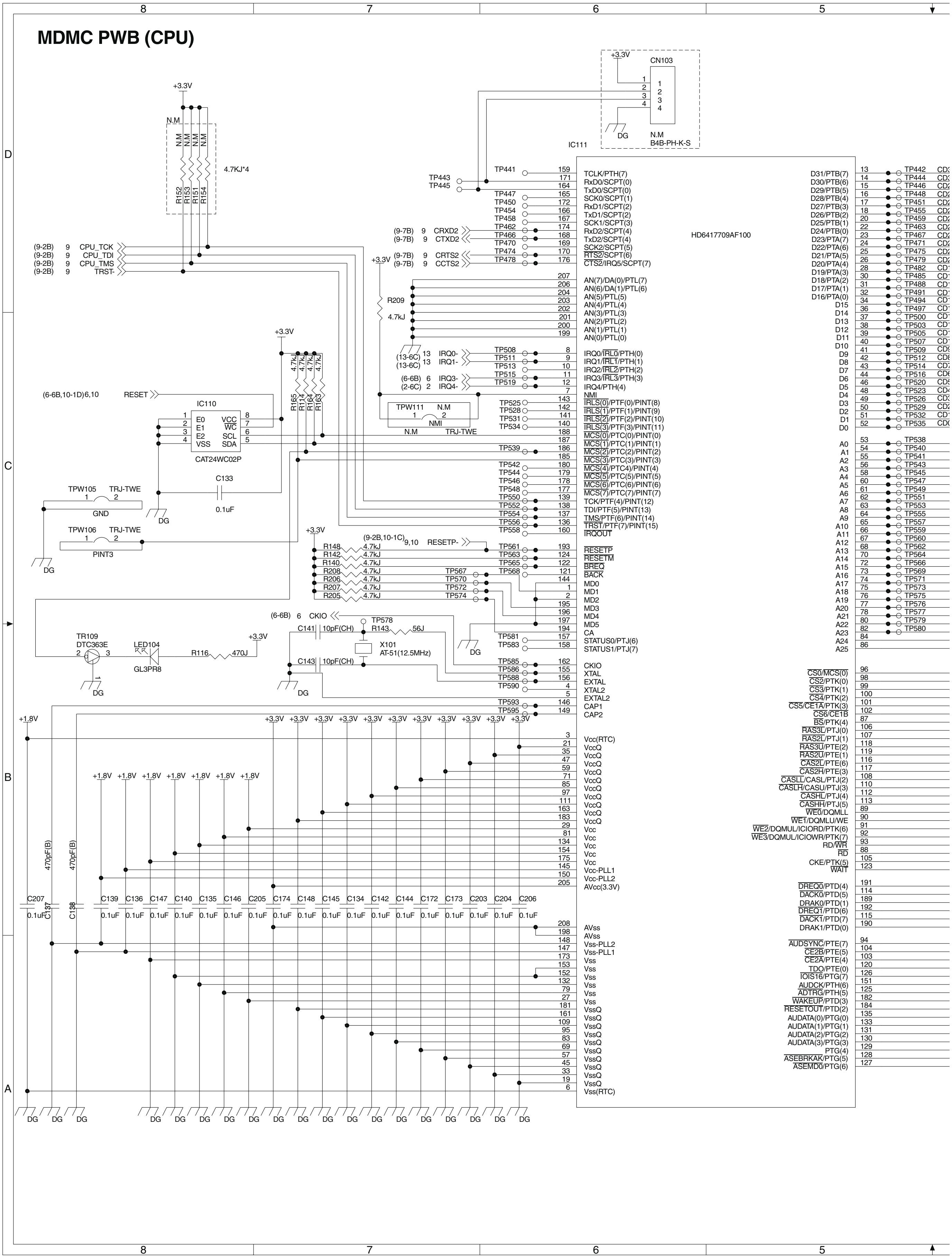
[PARTS SURFACE / 部品面]

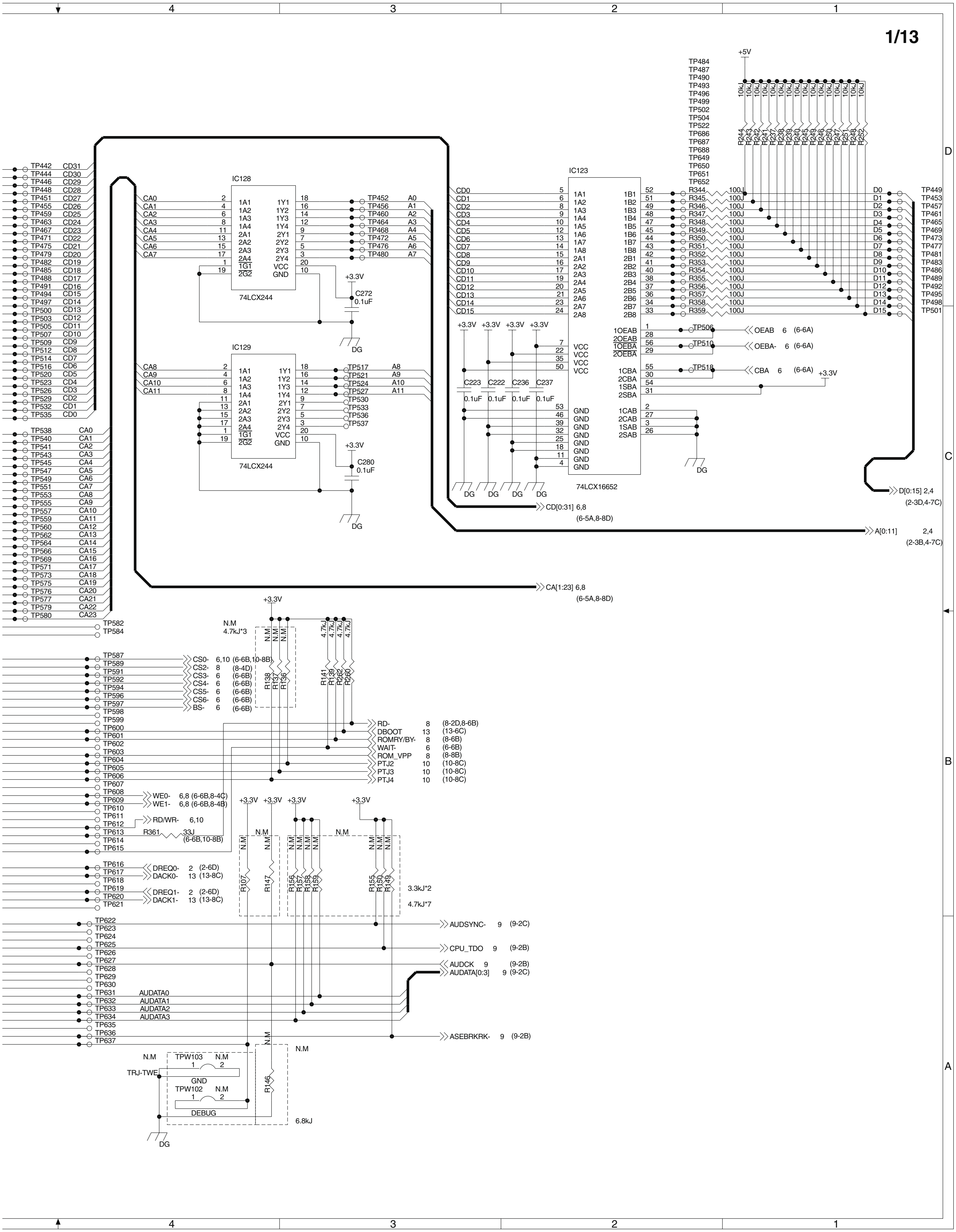

DIP
SMT
CN15
I284I/F
CN13
USB
CN16
FPGA JTAG
CN17
Y2 6MHz
IC54
74F1071MTC
IC48
74LVX161284MEA
CR2032-H03
BT1
BATTERY
IC47
MM1134BF
IC44
NC7SZ125M5X
IC42
NC7SZ126M5X
IC43
74VHCT08AMTC
IC45
ML60852ATB
FAN_SEL1
FAN_SEL0
IC37
NJM2903M
IC38
NJU6356EM
Y1
32.768KHz
IC36
74LCX14MTC
IC33
PST598IN
IC30
HN58V65AP-10
IC28
74LCX08MTC
X1
14.7456M
CN9
NIC
GP10
JP6
CN8
WHALE PRTC PWB
WHALE-ALPHA5
IC22
IC10
74LCX244
IC9
74LCX244
IC5
74LCX08MTC
IC1
74LCX08MTC
IC3
74LCX244
IC4
74LCX244
IC2
74LCX14MTC
CN5
IC7
EXT SERIAL
ENGINE I/F
CN1
CN2
COP
COP SEL
SHARP
AR-P16
US LISTED
ACCESSORY


SMT
CN17
FAN POWER
CN12
HDD
RC1117D33X
IC46
256M SDRAM
IC39
256M SDRAM
IC32
256M SDRAM
IC27
256M SDRAM
CY2305SC-1H
IC53
74LCX245
CY2309SC-1H
IC35
CY25812SC
X2
33.333MHz
Y3
16.345MHz
74LCX244
IC19
74LCX244
IC11
RC1117D33X
IC12
PJ1085C
IC8
74LCX14MTC
CN5
EXT SERIAL
CN7
CN6
CN4
CN3
JP4
GND
JP3
VCCWB
BOOT
WHALE-ALPHA5
PWB2007130C

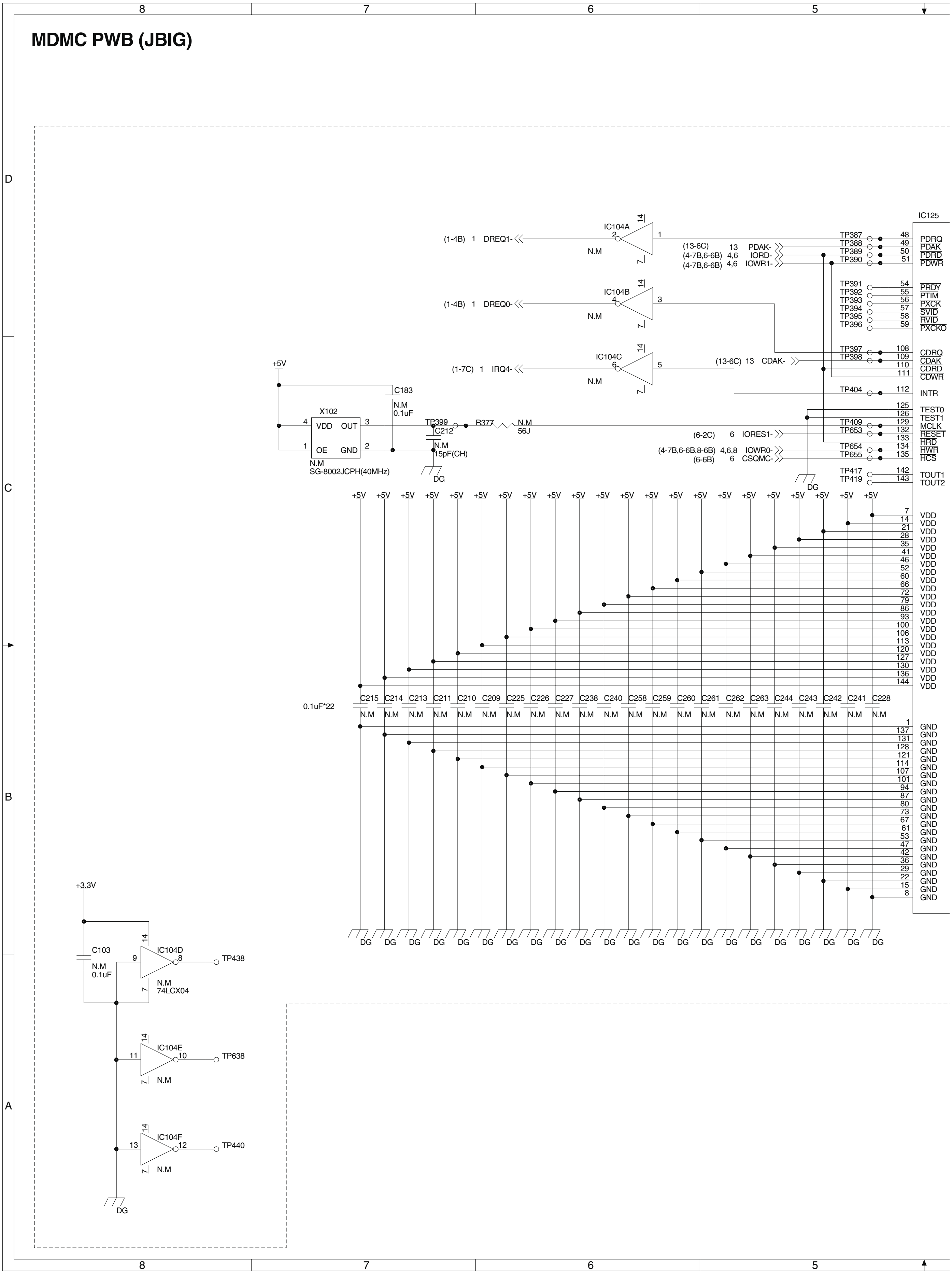
L. MDMC PWB

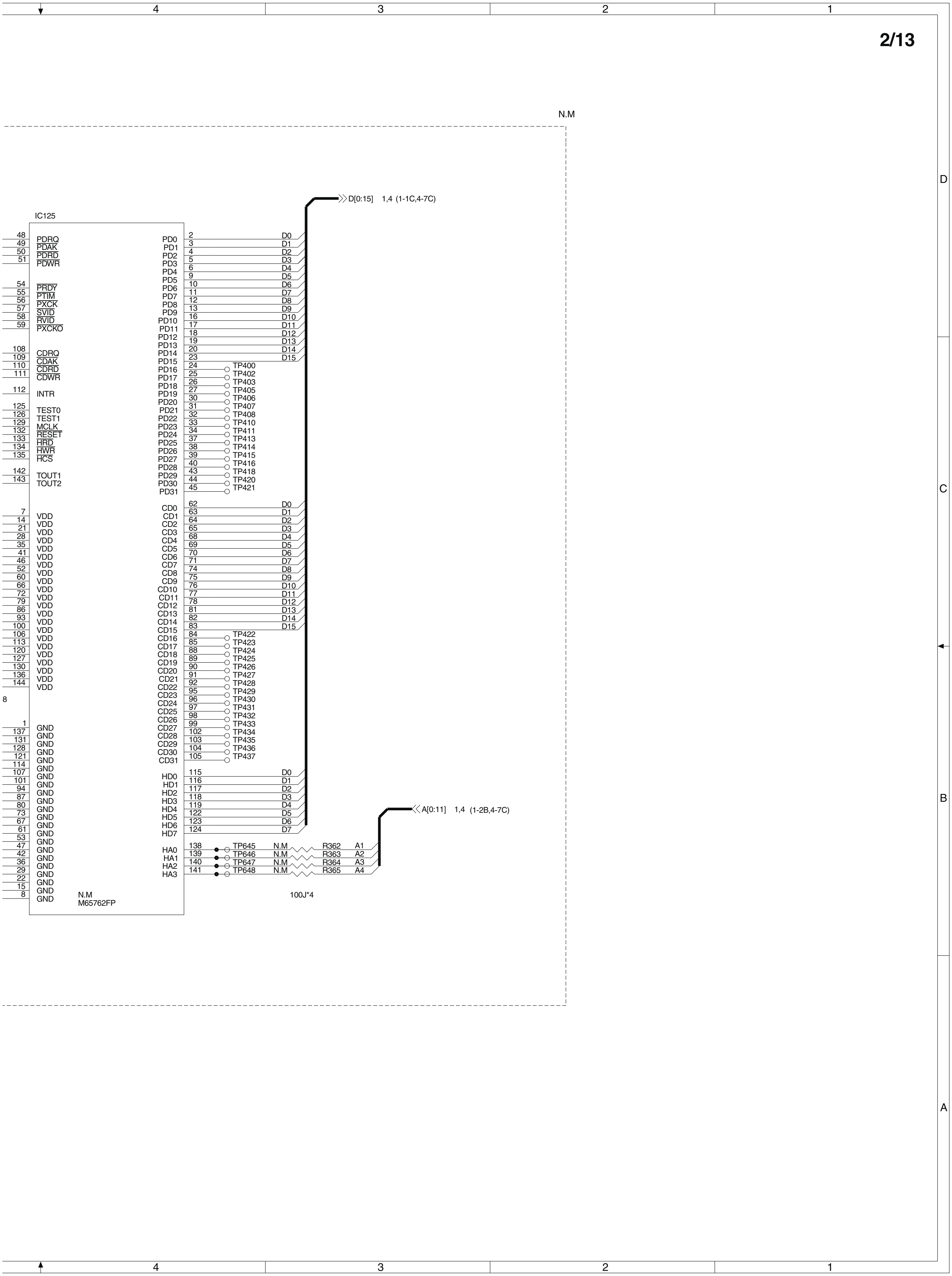
MDMC PWB (CPU)


8
7
6
5
D
C
B
A
CN103
+3.3V
1
2
3
4
DG
N.M
B4B-PH-K-S
IC111
HD6417709AF100
N.M
4.7KJ*4
R152
R153
R151
R154
(9-2B) 9 CPU_TCK
(9-2B) 9 CPU_TDI
(9-2B) 9 CPU_TMS
(9-2B) 9 TRST-
TP441
TP443
TP445
TP447
TP450
TP454
TP458
TP462
TP466
TP470
TP474
TP478
(9-7B) 9 CRXD2
(9-7B) 9 CTXD2
(9-7B) 9 CRTS2
(9-7B) 9 CCTS2
R209
4.7kJ
(13-6C) 13 IRQ0-
(13-6C) 13 IRQ1-
(6-6B) 6 IRQ3-
(2-6C) 2 IRQ4-
TPW111 N.M
NMI
TRJ-TWE
(6-6B,10-1D)6,10 RESET
IC110
E0
E1
E2
VSS
VCC
WC
SCL
SDA
CAT24WC02P
R165
R114
R164
R163
4.7kJ
C133
0.1uF
TPW105 TRJ-TWE
GND
TPW106 TRJ-TWE
PINT3
(9-2B,10-1C) 9,10 RESETP-
R148 4.7kJ
R142 4.7kJ
R140 4.7kJ
R208 4.7kJ
R206 4.7kJ
R207 4.7kJ
R205 4.7kJ
(6-6B) 6 CKIO
TP578
C141 10pF(CH)
R143 56J
X101
AT-51(12.5MHz)
C143 10pF(CH)
TR109
DTC363E
LED104
GL3PR8
R116 470J
+1.8V
470pF(B)
C207
C137
C138
C139 C136 C147 C140 C135 C146 C205 C174 C148 C145 C134 C142 C144 C172 C173 C203 C204 C206
0.1uF
TCLK/PTH(7)
RxD0/SCPT(0)
TxD0/SCPT(0)
SCK0/SCPT(1)
RxD1/SCPT(2)
TxD1/SCPT(2)
SCK1/SCPT(3)
RxD2/SCPT(4)
TxD2/SCPT(4)
SCK2/SCPT(5)
RTS2/SCPT(6)
CTS2/IRQ5/SCPT(7)
AN(7)/DA(0)/PTL(7)
AN(6)/DA(1)/PTL(6)
AN(5)/PTL(5)
AN(4)/PTL(4)
AN(3)/PTL(3)
AN(2)/PTL(2)
AN(1)/PTL(1)
AN(0)/PTL(0)
IRQ0/IRL0/PTH(0)
IRQ1/IRL1/PTH(1)
IRQ2/IRL2/PTH(2)
IRQ3/IRL3/PTH(3)
IRQ4/PTH(4)
NMI
IRLS(0)/PTF(0)/PINT(8)
IRLS(1)/PTF(1)/PINT(9)
IRLS(2)/PTF(2)/PINT(10)
IRLS(3)/PTF(3)/PINT(11)
MCS(0)/PTC(0)/PINT(0)
MCS(1)/PTC(1)/PINT(1)
MCS(2)/PTC(2)/PINT(2)
MCS(3)/PTC(3)/PINT(3)
MCS(4)/PTC4)/PINT(4)
MCS(5)/PTC(5)/PINT(5)
MCS(6)/PTC(6)/PINT(6)
MCS(7)/PTC(7)/PINT(7)
TCK/PTF(4)/PINT(12)
TDI/PTF(5)/PINT(13)
TMS/PTF(6)/PINT(14)
TRST/PTF(7)/PINT(15)
IRQOUT
RESETP
RESETM
BREQ
BACK
MD0
MD1
MD2
MD3
MD4
MD5
CA
STATUS0/PTJ(6)
STATUS1/PTJ(7)
CKIO
XTAL
EXTAL
XTAL2
EXTAL2
CAP1
CAP2
Vcc(RTC)
VccQ
Vcc
Vcc-PLL1
Vcc-PLL2
AVcc(3.3V)
AVss
Vss-PLL2
Vss-PLL1
Vss
VssQ
Vss(RTC)
D31/PTB(7)
D30/PTB(6)
D29/PTB(5)
D28/PTB(4)
D27/PTB(3)
D26/PTB(2)
D25/PTB(1)
D24/PTB(0)
D23/PTA(7)
D22/PTA(6)
D21/PTA(5)
D20/PTA(4)
D19/PTA(3)
D18/PTA(2)
D17/PTA(1)
D16/PTA(0)
D15
D14
D13
D12
D11
D10
D9
D8
D7
D6
D5
D4
D3
D2
D1
D0
A0
A1
A2
A3
A4
A5
A6
A7
A8
A9
A10
A11
A12
A13
A14
A15
A16
A17
A18
A19
A20
A21
A22
A23
A24
A25
CS0/MCS(0)
CS2/PTK(0)
CS3/PTK(1)
CS4/PTK(2)
CS5/CE1A/PTK(3)
CS6/CE1B
BS/PTK(4)
RAS3L/PTJ(0)
RAS2L/PTJ(1)
RAS3U/PTE(2)
RAS2U/PTE(1)
CAS2L/PTE(6)
CAS2H/PTE(3)
CASLL/CASL/PTJ(2)
CASLH/CASU/PTJ(3)
CASHL/PTJ(4)
CASHH/PTJ(5)
WE0/DQMLL
WE1/DQMLU/WE
WE2/DQMUL/ICIORD/PTK(6)
WE3/DQMUL/ICIOWR/PTK(7)
RD/WR
RD
CKE/PTK(5)
WAIT
DREQ0/PTD(4)
DACK0/PTD(5)
DRAK0/PTD(1)
DREQ1/PTD(6)
DACK1/PTD(7)
DRAK1/PTD(0)
AUDSYNC/PTE(7)
CE2B/PTE(5)
CE2A/PTE(4)
TDO/PTE(0)
IOIS16/PTG(7)
AUDCK/PTH(6)
ADTRG/PTH(5)
WAKEUP/PTD(3)
RESETOUT/PTD(2)
AUDATA(0)/PTG(0)
AUDATA(1)/PTG(1)
AUDATA(2)/PTG(2)
AUDATA(3)/PTG(3)
PTG(4)
ASEBRKAK/PTG(5)
ASEMD0/PTG(6)
TP442
TP444
TP446
TP448
TP451
TP455
TP459
TP463
TP467
TP471
TP475
TP479
TP482
TP485
TP488
TP491
TP494
TP497
TP500
TP503
TP505
TP507
TP509
TP512
TP514
TP516
TP520
TP523
TP526
TP529
TP532
TP535
TP538
TP540
TP541
TP543
TP545
TP547
TP549
TP551
TP553
TP555
TP557
TP559
TP560
TP562
TP564
TP566
TP569
TP571
TP573
TP575
TP576
TP577
TP579
TP580
DG

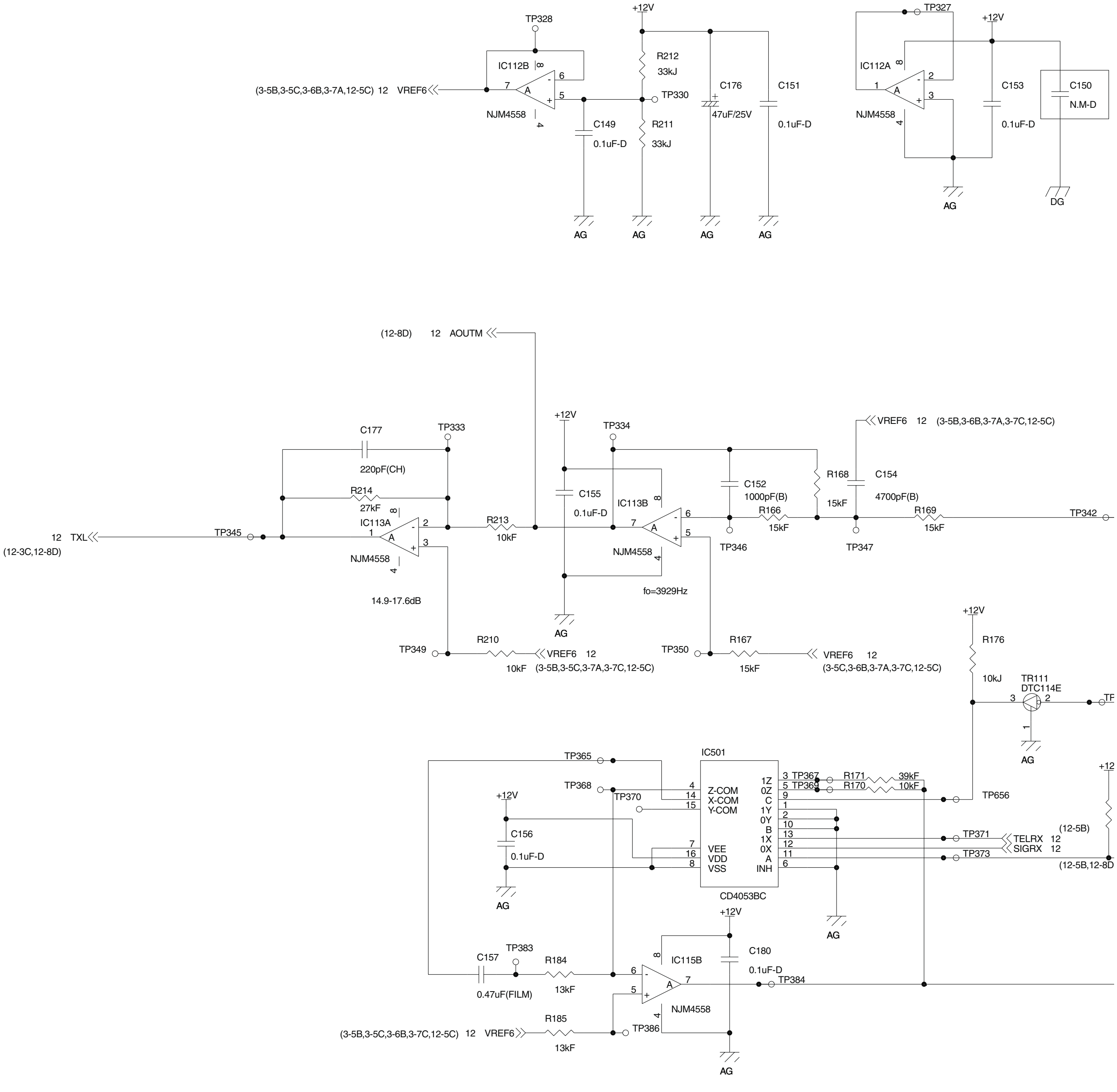

1/13
+5V
IC128
IC129
IC123
74LCX244
74LCX244
74LCX16652
C272 0.1uF
C280 0.1uF
C223 C222 C236 C237 0.1uF
+3.3V
DG
CD[0:31] 6,8 (6-5A,8-8D)
A[0:11] 2,4 (2-3B,4-7C)
D[0:15] 2,4 (2-3D,4-7C)
CA[1:23] 6,8 (6-5A,8-8D)
OEAB 6 (6-6A)
OEBA- 6 (6-6A)
CBA 6 (6-6A)
CS0- 6,10 (6-6B,10-8B)
CS2- 8 (8-4D)
CS3- 6 (6-6B)
CS4- 6 (6-6B)
CS5- 6 (6-6B)
CS6- 6 (6-6B)
BS- 6 (6-6B)
RD- 8 (8-2D,8-6B)
DBOOT 13 (13-6C)
ROMRY/BY- 8 (8-6B)
WAIT- 6 (6-6B)
ROM_VPP 8 (8-8B)
PTJ2 10 (10-8C)
PTJ3 10 (10-8C)
PTJ4 10 (10-8C)
WE0- 6,8 (6-6B,8-4C)
WE1- 6,8 (6-6B,8-4B)
RD/WR- 6,10
R361 33J (6-6B,10-8B)
DREQ0- 2 (2-6D)
DACK0- 13 (13-8C)
DREQ1- 2 (2-6D)
DACK1- 13 (13-8C)
AUDSYNC- 9 (9-2C)
CPU_TDO 9 (9-2B)
AUDCK 9 (9-2B)
AUDATA[0:3] 9 (9-2C)
ASEBRKRK- 9 (9-2B)
AUDATA0
AUDATA1
AUDATA2
AUDATA3
N.M 4.7kJ*3
3.3kJ*2
4.7kJ*7
6.8kJ
TPW103
TPW102
TRJ-TWE
GND
DEBUG
4 3 2 1
D C B A

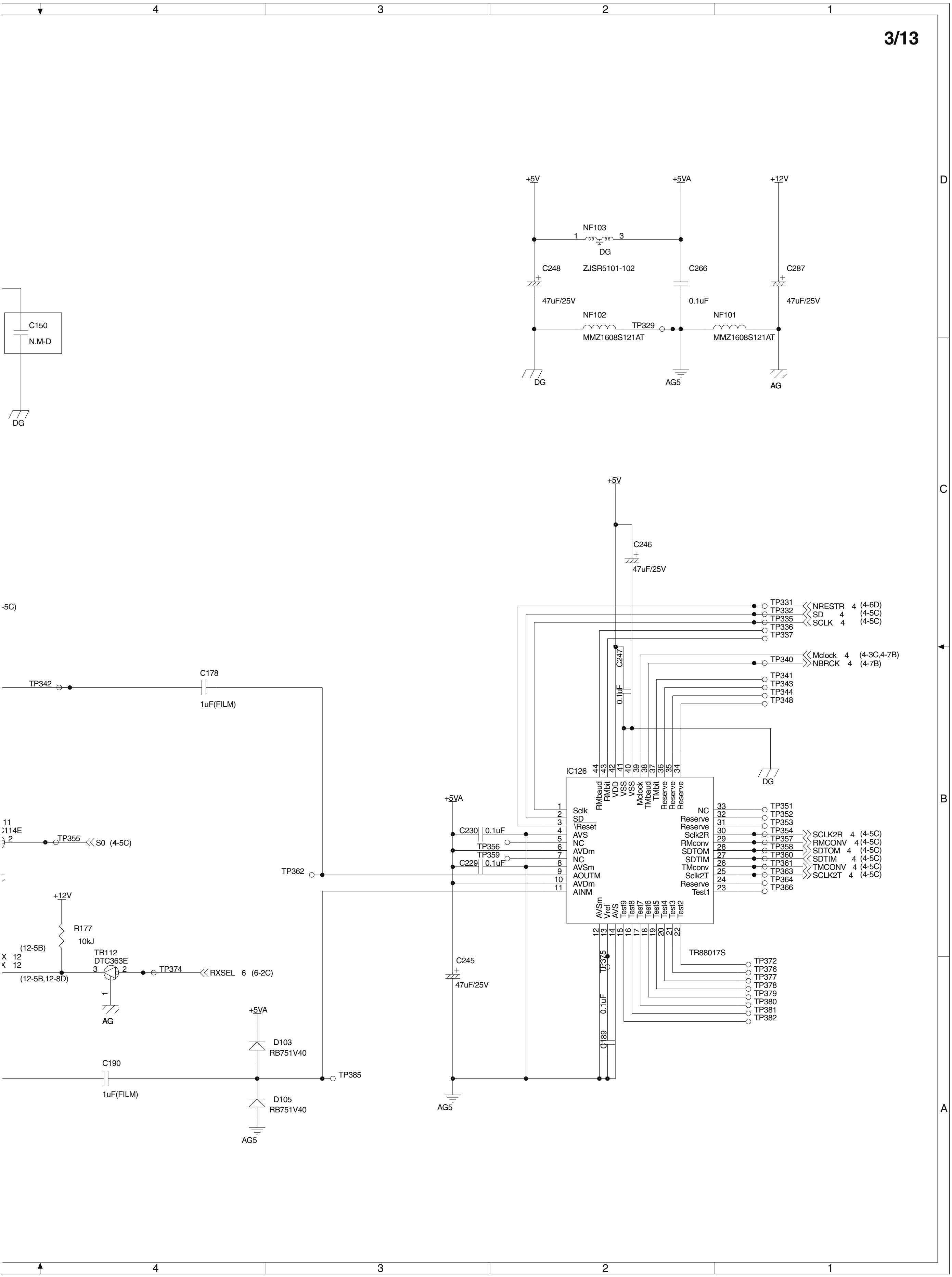
MDMC PWB (JBIG)


8
7
6
5
D
C
B
A
IC125
IC104A
(1-4B) 1 DREQ1-
2
1
14
7
N.M
TP387
TP388
TP389
TP390
48 PDRQ
49 PDAK
50 PDRD
51 PDWR
(13-6C) 13 PDAK-
(4-7B,6-6B) 4,6 IORD-
(4-7B,6-6B) 4,6 IOWR1-
IC104B
(1-4B) 1 DREQ0-
4
3
TP391
TP392
TP393
TP394
TP395
TP396
54 PRDY
55 PTIM
56 PXCK
57 SVID
58 RVID
59 PXCKO
IC104C
(1-7C) 1 IRQ4-
6
5
(13-6C) 13 CDAK-
TP397
TP398
108 CDRQ
109 CDAK
110 CDRD
111 CDWR
TP404
112 INTR
125 TEST0
126 TEST1
TP409
TP653
129 MCLK
132 RESET
133 HRD
134 HWR
135 HCS
(6-2C) 6 IORES1-
(4-7B,6-6B,8-6B) 4,6,8 IOWR0-
(6-6B) 6 CSQMC-
TP654
TP655
TP417
TP419
142 TOUT1
143 TOUT2
DG
+5V
C183
N.M
0.1uF
X102
4 VDD OUT 3
1 OE GND 2
N.M
SG-8002JCPH(40MHz)
TP399
R377
N.M
56J
C212
N.M
15pF(CH)
DG
7 14 21 28 35 41 46 52 60 66 72 79 86 93 100 106 113 120 127 130 136 144 VDD
0.1uF*22
C215 C214 C213 C211 C210 C209 C225 C226 C227 C238 C240 C258 C259 C260 C261 C262 C263 C244 C243 C242 C241 C228
N.M
1 137 131 128 121 114 107 101 94 87 80 73 67 61 53 47 42 36 29 22 15 8 GND
DG
+3.3V
C103
N.M
0.1uF
IC104D
9
8
14
7
N.M
74LCX04
TP438
IC104E
11
10
N.M
TP638
IC104F
13
12
N.M
TP440
DG

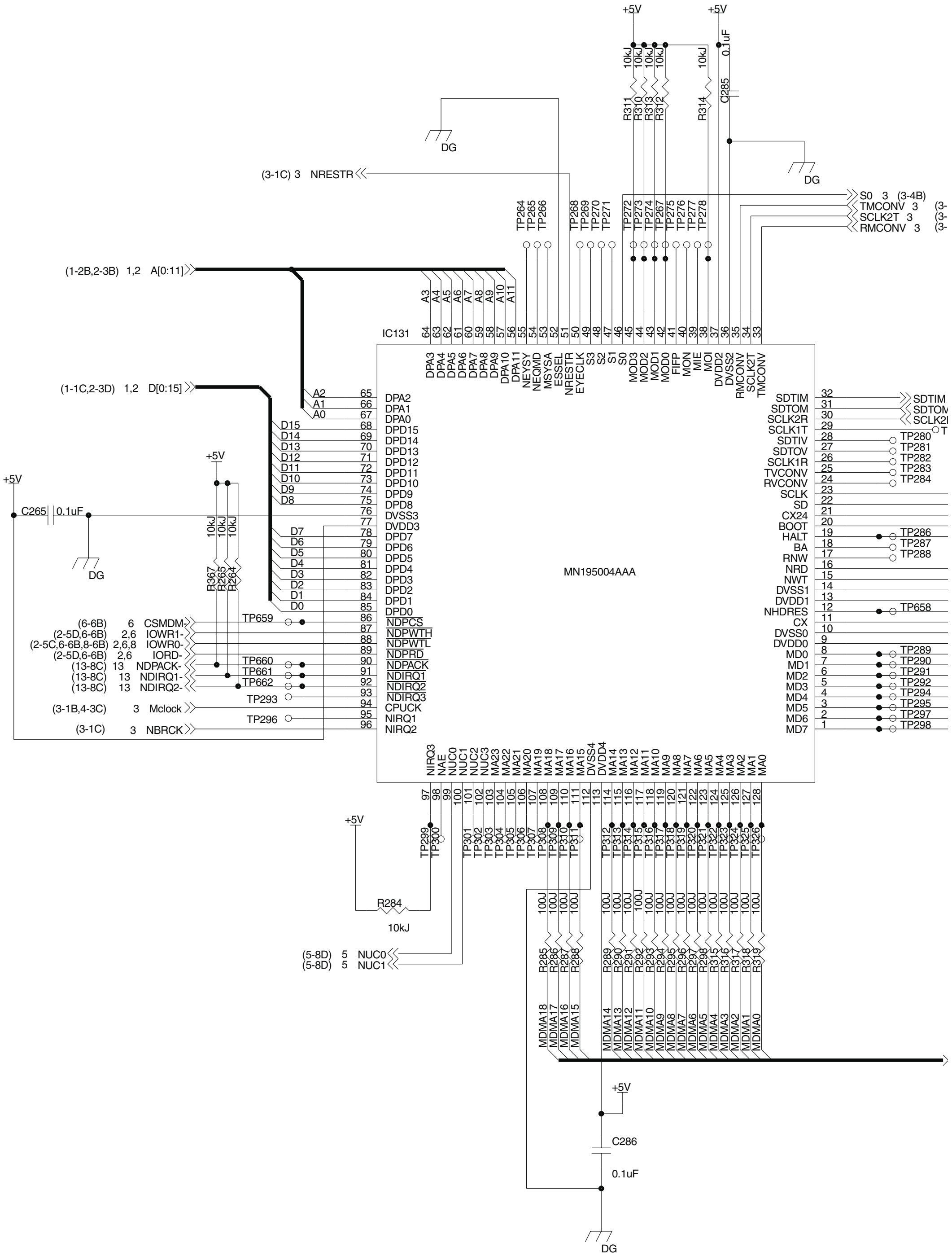

4
3
2
1
D
C
B
A
N.M
IC125
D[0:15] 1,4 (1-1C,4-7C)
A[0:11] 1,4 (1-2B,4-7C)
48 PDRQ
49 PDAK
50 PDRD
51 PDWR
54 PRDY
55 PTIM
56 PXCK
57 SVID
58 RVID
59 PXCKO
108 CDRQ
109 CDAK
110 CDRD
111 CDWR
112 INTR
125 TEST0
126 TEST1
129 MCLK
132 RESET
133 HRD
134 HWR
135 HCS
142 TOUT1
143 TOUT2
7 14 21 28 35 41 46 52 60 66 72 79 86 93 100 106 113 120 127 130 136 144 VDD
8
1 137 131 128 121 114 107 101 94 87 80 73 67 61 53 47 42 36 29 22 15 8 GND
PD0 2 D0
PD1 3 D1
PD2 4 D2
PD3 5 D3
PD4 6 D4
PD5 9 D5
PD6 10 D6
PD7 11 D7
PD8 12 D8
PD9 13 D9
PD10 16 D10
PD11 17 D11
PD12 18 D12
PD13 19 D13
PD14 20 D14
PD15 23 D15
PD16 24 TP400
PD17 25 TP402
PD18 26 TP403
PD19 27 TP405
PD20 30 TP406
PD21 31 TP407
PD22 32 TP408
PD23 33 TP410
PD24 34 TP411
PD25 37 TP413
PD26 38 TP414
PD27 39 TP415
PD28 40 TP416
PD29 43 TP418
PD30 44 TP420
PD31 45 TP421
CD0 62 D0
CD1 63 D1
CD2 64 D2
CD3 65 D3
CD4 68 D4
CD5 69 D5
CD6 70 D6
CD7 71 D7
CD8 74 D8
CD9 75 D9
CD10 76 D10
CD11 77 D11
CD12 78 D12
CD13 81 D13
CD14 82 D14
CD15 83 D15
CD16 84 TP422
CD17 85 TP423
CD18 88 TP424
CD19 89 TP425
CD20 90 TP426
CD21 91 TP427
CD22 92 TP428
CD23 95 TP429
CD24 96 TP430
CD25 97 TP431
CD26 98 TP432
CD27 99 TP433
CD28 102 TP434
CD29 103 TP435
CD30 104 TP436
CD31 105 TP437
HD0 115 D0
HD1 116 D1
HD2 117 D2
HD3 118 D3
HD4 119 D4
HD5 122 D5
HD6 123 D6
HD7 124 D7
HA0 138 TP645 N.M R362 A1
HA1 139 TP646 N.M R363 A2
HA2 140 TP647 N.M R364 A3
HA3 141 TP648 N.M R365 A4
100J*4
N.M
M65762FP

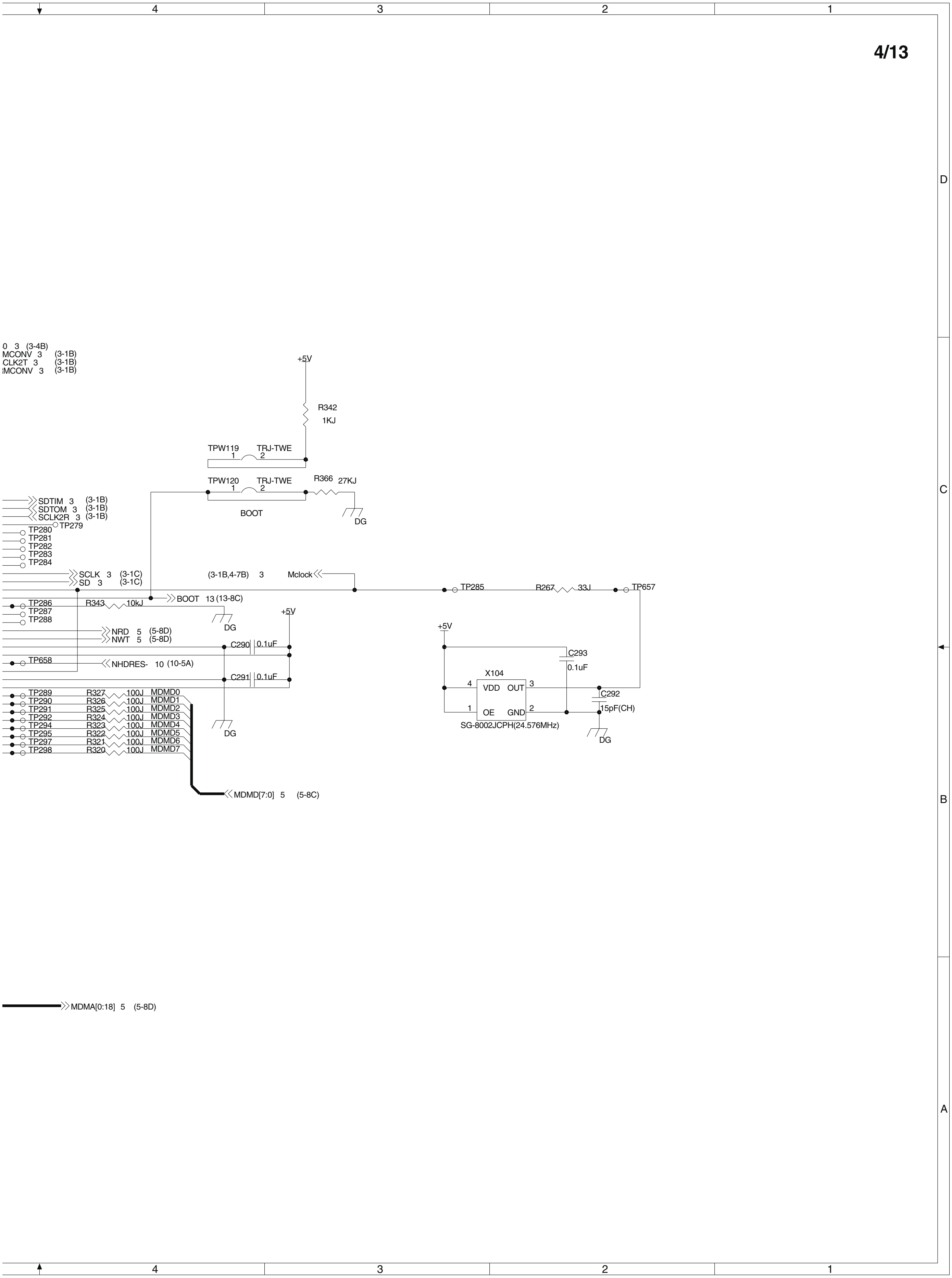
MDMC PWB (MODEM (AFE))


TP328
IC112B
NJM4558
(3-5B,3-5C,3-6B,3-7A,12-5C) 12 VREF6
+12V
R212
33kJ
TP330
R211
33kJ
C149
0.1uF-D
C176
47uF/25V
C151
0.1uF-D
AG
TP327
IC112A
C153
0.1uF-D
C150
N.M-D
DG
(12-8D) 12 AOUTM
C177
220pF(CH)
TP333
R214
27kF
IC113A
12 TXL
(12-3C,12-8D)
TP345
14.9-17.6dB
R213
10kF
C155
0.1uF-D
TP334
IC113B
fo=3929Hz
C152
1000pF(B)
R166
15kF
TP346
R168
15kF
C154
4700pF(B)
VREF6 12 (3-5B,3-6B,3-7A,3-7C,12-5C)
TP347
R169
15kF
TP342
TP349
R210
10kF
VREF6 12 (3-5B,3-5C,3-7A,3-7C,12-5C)
TP350
R167
15kF
VREF6 12 (3-5C,3-6B,3-7A,3-7C,12-5C)
R176
10kJ
TR111
DTC114E
IC501
TP365
TP368
TP370
Z-COM
X-COM
Y-COM
VEE
VDD
VSS
1Z
0Z
C
1Y
0Y
B
1X
0X
A
INH
CD4053BC
TP367
TP369
R171
39kF
R170
10kF
TP656
TP371
TP373
TELRX 12
SIGRX 12
(12-5B)
(12-5B,12-8D
C156
0.1uF-D
C157
0.47uF(FILM)
TP383
R184
13kF
IC115B
C180
0.1uF-D
TP384
R185
13kF
(3-5B,3-5C,3-6B,3-7C,12-5C) 12 VREF6
TP386

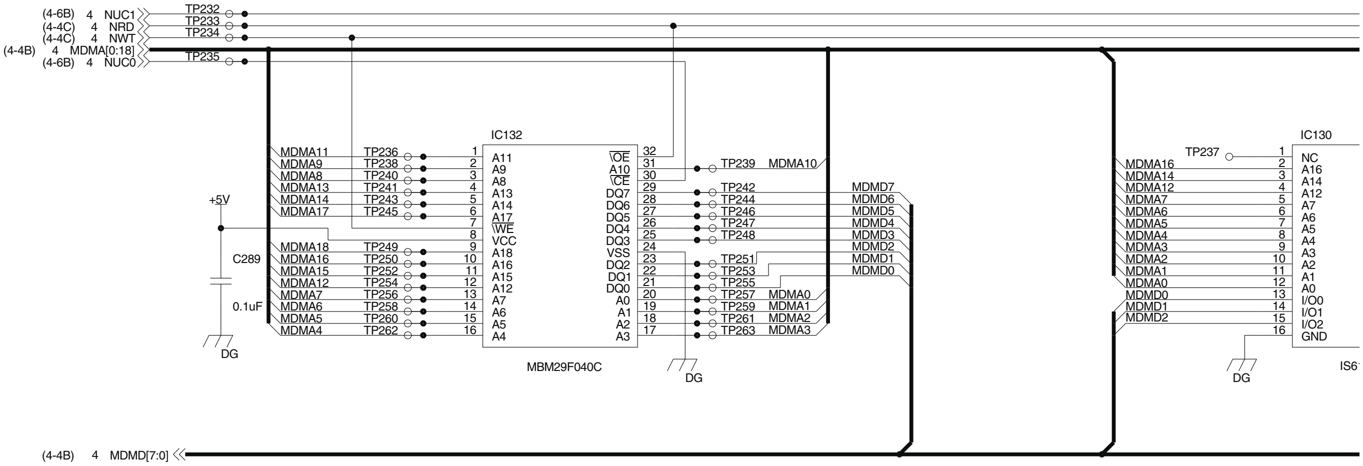

4
3
2
1
3/13
D
C
B
A
+5V
+5VA
+12V
NF103
1
3
DG
C248
ZJSR5101-102
C266
C287
47uF/25V
0.1uF
47uF/25V
NF102
TP329
NF101
MMZ1608S121AT
MMZ1608S121AT
DG
AG5
AG
C150
N.M-D
DG
+5V
C246
47uF/25V
-5C)
TP331
TP332
TP335
TP336
TP337
NRESTR 4 (4-6D)
SD 4 (4-5C)
SCLK 4 (4-5C)
C247
0.1uF
TP340
Mclock 4 (4-3C,4-7B)
NBRCK 4 (4-7B)
TP341
TP343
TP344
TP348
TP342
C178
1uF(FILM)
DG
IC126
44 RMbaud
43 RMbit
42 VDD
41 VSS
40 VSS
39 Mclock
38 TMbaud
37 TMbit
36 Reserve
35 Reserve
34 Reserve
1 Sclk
2 SD
3 \Reset
4 AVS
5 NC
6 AVDm
7 NC
8 AVSm
9 AOUTM
10 AVDm
11 AINM
33 NC
32 Reserve
31 Reserve
30 Sclk2R
29 RMconv
28 SDTOM
27 SDTIM
26 TMconv
25 Sclk2T
24 Reserve
23 Test1
12 AVSm
13 Vref
14 AVS
15 Test9
16 Test8
17 Test7
18 Test6
19 Test5
20 Test4
21 Test3
22 Test2
TR88017S
+5VA
C230 0.1uF
TP356
TP359
C229 0.1uF
TP351
TP352
TP353
TP354
TP357
TP358
TP360
TP361
TP363
TP364
TP366
SCLK2R 4 (4-5C)
RMCONV 4 (4-5C)
SDTOM 4 (4-5C)
SDTIM 4 (4-5C)
TMCONV 4 (4-5C)
SCLK2T 4 (4-5C)
11
C114E
2
TP355
S0 (4-5C)
TP362
+12V
R177
10kJ
(12-5B)
X 12
X 12
(12-5B,12-8D)
TR112
DTC363E
3
2
1
TP374
RXSEL 6 (6-2C)
AG
C245
47uF/25V
TP375
0.1uF
C189
TP372
TP376
TP377
TP378
TP379
TP380
TP381
TP382
+5VA
D103
RB751V40
C190
1uF(FILM)
TP385
D105
RB751V40
AG5
AG5

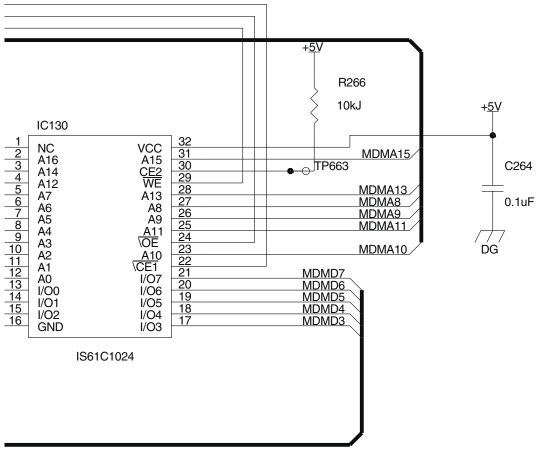
MDMC PWB (MODEM (DSP))


IC131
MN195004AAA
+5V
DG
(3-1C) 3 NRESTR
(1-2B,2-3B) 1,2 A[0:11]
(1-1C,2-3D) 1,2 D[0:15]
S0 3 (3-4B)
TMCONV 3
SCLK2T 3
RMCONV 3
R311 R310 R313 R312 10kJ
R314 10kJ
C285 0.1uF
C265 0.1uF
R367 R265 R264 10kJ
(6-6B) 6 CSMDM-
(2-5D,6-6B) 2,6 IOWR1-
(2-5C,6-6B,8-6B) 2,6,8 IOWR0-
(2-5D,6-6B) 2,6 IORD-
(13-8C) 13 NDPACK-
(13-8C) 13 NDIRQ1-
(13-8C) 13 NDIRQ2-
(3-1B,4-3C) 3 Mclock
(3-1C) 3 NBRCK
TP659 TP660 TP661 TP662 TP293 TP296
DPA2 DPA1 DPA0 DPD15 DPD14 DPD13 DPD12 DPD11 DPD10 DPD9 DPD8 DVSS3 DVDD3 DPD7 DPD6 DPD5 DPD4 DPD3 DPD2 DPD1 DPD0 NDPCS NDPWTH NDPWTL NDPRD NDPACK NDIRQ1 NDIRQ2 NDIRQ3 CPUCK NIRQ1 NIRQ2
DPA3 DPA4 DPA5 DPA6 DPA7 DPA8 DPA9 DPA10 DPA11 NEYSY NEQMD MSYSA ESSEL NRESTR EYECLK S3 S2 S1 S0 MOD3 MOD2 MOD1 MOD0 FIFP MON MIE MOI DVDD2 DVSS2 RMCONV SCLK2T TMCONV
SDTIM SDTOM SCLK2R SCLK1T SDTIV SDTOV SCLK1R TVCONV RVCONV SCLK SD CX24 BOOT HALT BA RNW NRD NWT DVSS1 DVDD1 NHDRES CX DVSS0 DVDD0 MD0 MD1 MD2 MD3 MD4 MD5 MD6 MD7
NIRQ3 NAE NUC0 NUC1 NUC2 NUC3 MA23 MA22 MA21 MA20 MA19 MA18 MA17 MA16 MA15 DVSS4 DVDD4 MA14 MA13 MA12 MA11 MA10 MA9 MA8 MA7 MA6 MA5 MA4 MA3 MA2 MA1 MA0
TP284 TP265 TP266 TP268 TP269 TP270 TP271 TP272 TP273 TP274 TP267 TP275 TP276 TP277 TP278
TP280 TP281 TP282 TP283 TP284 TP286 TP287 TP288 TP658 TP289 TP290 TP291 TP292 TP294 TP295 TP297 TP298
TP299 TP300 TP301 TP302 TP303 TP304 TP305 TP306 TP307 TP308 TP309 TP310 TP311 TP312 TP313 TP314 TP315 TP316 TP317 TP318 TP319 TP320 TP321 TP322 TP323 TP324 TP325 TP326
R284 10kJ
(5-8D) 5 NUC0
(5-8D) 5 NUC1
R285 R286 R287 R288 100J
R289 R290 R291 R292 R293 R294 R295 R296 R297 R298 R315 R316 R317 R318 R319 100J
MDMA18 MDMA17 MDMA16 MDMA15 MDMA14 MDMA13 MDMA12 MDMA11 MDMA10 MDMA9 MDMA8 MDMA7 MDMA6 MDMA5 MDMA4 MDMA3 MDMA2 MDMA1 MDMA0
C286 0.1uF
8 7 6 5
D C B A

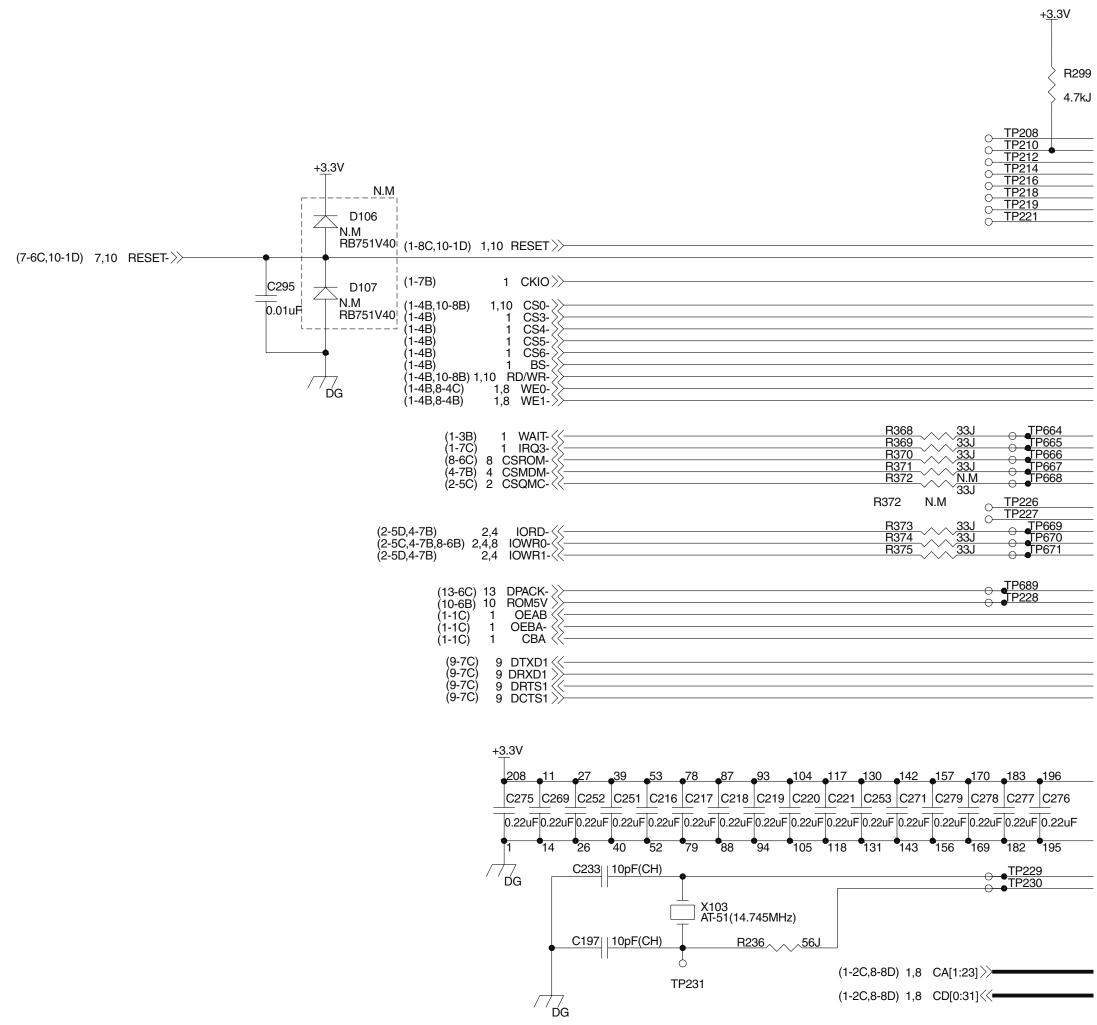

4/13
4
3
2
1
D
C
B
A
0 3 (3-4B)
MCONV 3 (3-1B)
CLK2T 3 (3-1B)
MCONV 3 (3-1B)
+5V
R342
1KJ
TPW119
TRJ-TWE
1
2
TPW120
TRJ-TWE
R366
27KJ
BOOT
DG
SDTIM 3 (3-1B)
SDTOM 3 (3-1B)
SCLK2R 3 (3-1B)
TP279
TP280
TP281
TP282
TP283
TP284
SCLK 3 (3-1C)
SD 3 (3-1C)
(3-1B,4-7B) 3
Mclock
TP285
R267
33J
TP657
TP286
TP287
TP288
R343
10kJ
BOOT 13 (13-8C)
NRD 5 (5-8D)
NWT 5 (5-8D)
C290
0.1uF
C291
0.1uF
TP658
NHDRES- 10 (10-5A)
+5V
C293
0.1uF
X104
VDD
OUT
OE
GND
4
3
1
2
C292
15pF(CH)
SG-8002JCPH(24.576MHz)
TP289
TP290
TP291
TP292
TP294
TP295
TP297
TP298
R327
R326
R325
R324
R323
R322
R321
R320
100J
MDMD0
MDMD1
MDMD2
MDMD3
MDMD4
MDMD5
MDMD6
MDMD7
MDMD[7:0] 5 (5-8C)
MDMA[0:18] 5 (5-8D)

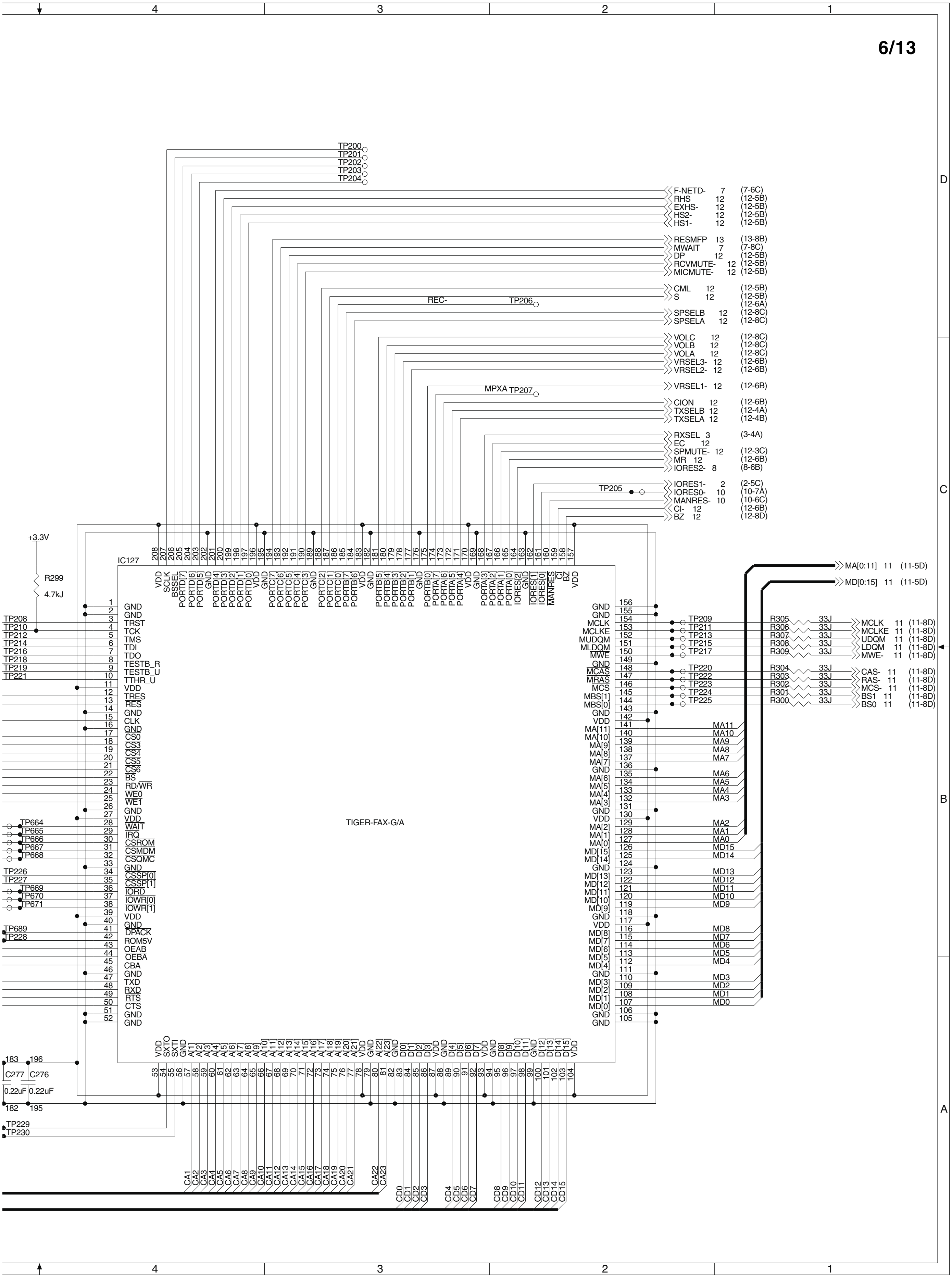
MDMC PWB (MODEM (ROM, RAM))


(4-6B) 4 NUC1
(4-4C) 4 NRD
(4-4C) 4 NWT
(4-4B) 4 MDMA[0:18]
(4-6B) 4 NUC0
TP232
TP233
TP234
TP235
IC132
MDMA11 TP236 1 A11
MDMA9 TP238 2 A9
MDMA8 TP240 3 A8
MDMA13 TP241 4 A13
MDMA14 TP243 5 A14
MDMA17 TP245 6 A17
7 WE
8 VCC
MDMA18 TP249 9 A18
MDMA16 TP250 10 A16
MDMA15 TP252 11 A15
MDMA12 TP254 12 A12
MDMA7 TP256 13 A7
MDMA6 TP258 14 A6
MDMA5 TP260 15 A5
MDMA4 TP262 16 A4
+5V
C289
0.1uF
DG
32 OE
31 A10 TP239 MDMA10
30 CE
29 DQ7 TP242 MDMD7
28 DQ6 TP244 MDMD6
27 DQ5 TP246 MDMD5
26 DQ4 TP247 MDMD4
25 DQ3 TP248 MDMD3
24 VSS
23 DQ2 TP251 MDMD2
22 DQ1 TP253 MDMD1
21 DQ0 TP255 MDMD0
20 A0 TP257 MDMA0
19 A1 TP259 MDMA1
18 A2 TP261 MDMA2
17 A3 TP263 MDMA3
MBM29F040C
DG
IC130
TP237 1 NC
MDMA16 2 A16
MDMA14 3 A14
MDMA12 4 A12
MDMA7 5 A7
MDMA6 6 A6
MDMA5 7 A5
MDMA4 8 A4
MDMA3 9 A3
MDMA2 10 A2
MDMA1 11 A1
MDMA0 12 A0
MDMD0 13 I/O0
MDMD1 14 I/O1
MDMD2 15 I/O2
16 GND
DG
IS6
(4-4B) 4 MDMD[7:0]

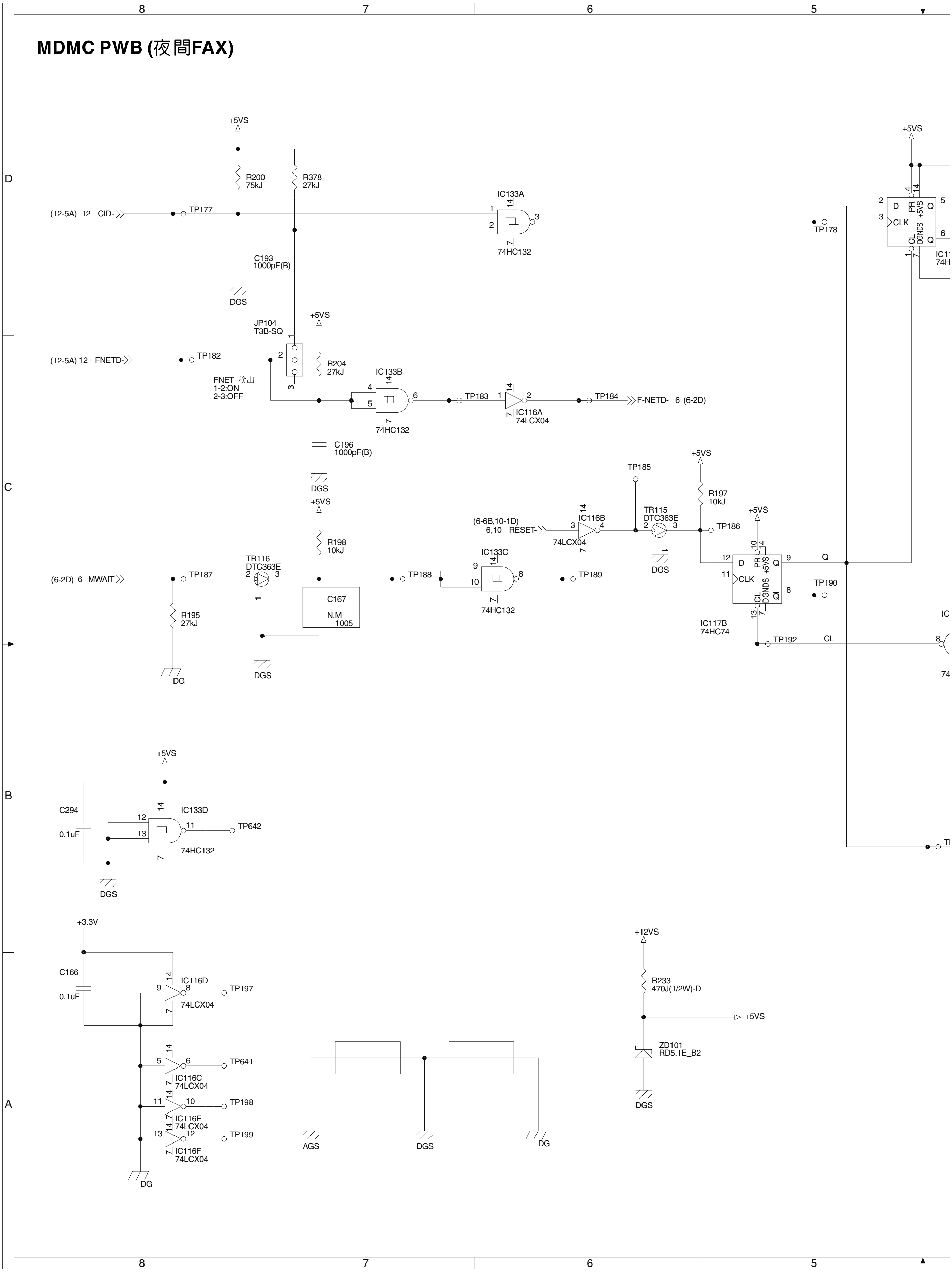

IC130
IS61C1024
1 NC
2 A16
3 A14
4 A12
5 A7
6 A6
7 A5
8 A4
9 A3
10 A2
11 A1
12 A0
13 I/O0
14 I/O1
15 I/O2
16 GND
32 VCC
31 A15
30 CE2
29 WE
28 A13
27 A8
26 A9
25 A11
24 OE
23 A10
22 CE1
21 I/O7
20 I/O6
19 I/O5
18 I/O4
17 I/O3
+5V
R266
10kJ
TP663
+5V
C264
0.1uF
DG
MDMA15
MDMA13
MDMA8
MDMA9
MDMA11
MDMA10
MDMD7
MDMD6
MDMD5
MDMD4
MDMD3

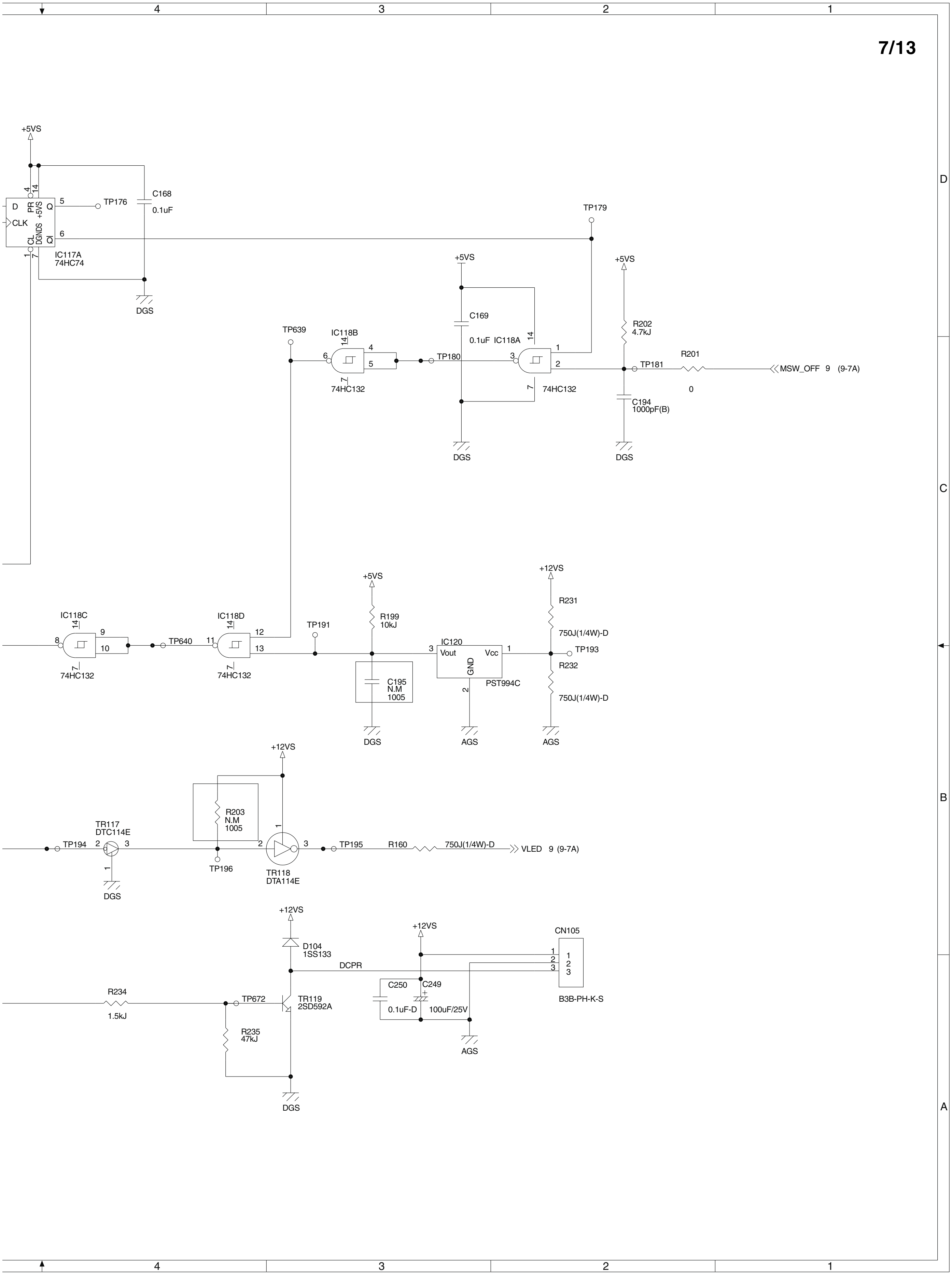
MDMC PWB (FAX G/A)


+3.3V
R299
4.7kJ
TP208
TP210
TP212
TP214
TP216
TP218
TP219
TP221
+3.3V
N.M
D106
N.M
RB751V40
(7-6C,10-1D) 7,10 RESET-
C295
0.01uF
D107
N.M
RB751V40
DG
(1-8C,10-1D) 1,10 RESET
(1-7B) 1 CKIO
(1-4B,10-8B) 1,10 CS0-
(1-4B) 1 CS3-
(1-4B) 1 CS4-
(1-4B) 1 CS5-
(1-4B) 1 CS6-
(1-4B) 1 BS-
(1-4B,10-8B) 1,10 RD/WR-
(1-4B,8-4C) 1,8 WE0-
(1-4B,8-4B) 1,8 WE1-
(1-3B) 1 WAIT-
(1-7C) 1 IRQ3-
(8-6C) 8 CSROM-
(4-7B) 4 CSMDM-
(2-5C) 2 CSQMC-
R368 33J TP664
R369 33J TP665
R370 33J TP666
R371 33J TP667
R372 N.M TP668
33J
R372 N.M
TP226
TP227
(2-5D,4-7B) 2,4 IORD-
(2-5C,4-7B,8-6B) 2,4,8 IOWR0-
(2-5D,4-7B) 2,4 IOWR1-
R373 33J TP669
R374 33J TP670
R375 33J TP671
(13-6C) 13 DPACK-
(10-6B) 10 ROM5V
(1-1C) 1 OEAB
(1-1C) 1 OEBA-
(1-1C) 1 CBA
TP689
TP228
(9-7C) 9 DTXD1
(9-7C) 9 DRXD1
(9-7C) 9 DRTS1
(9-7C) 9 DCTS1
+3.3V
208 11 27 39 53 78 87 93 104 117 130 142 157 170 183 196
C275 C269 C252 C251 C216 C217 C218 C219 C220 C221 C253 C271 C279 C278 C277 C276
0.22uF 0.22uF 0.22uF 0.22uF 0.22uF 0.22uF 0.22uF 0.22uF 0.22uF 0.22uF 0.22uF 0.22uF 0.22uF 0.22uF 0.22uF 0.22uF
1 14 26 40 52 79 88 94 105 118 131 143 156 169 182 195
DG
C233 10pF(CH)
TP229
TP230
X103
AT-51(14.745MHz)
C197 10pF(CH)
R236 56J
TP231
DG
(1-2C,8-8D) 1,8 CA[1:23]
(1-2C,8-8D) 1,8 CD[0:31]

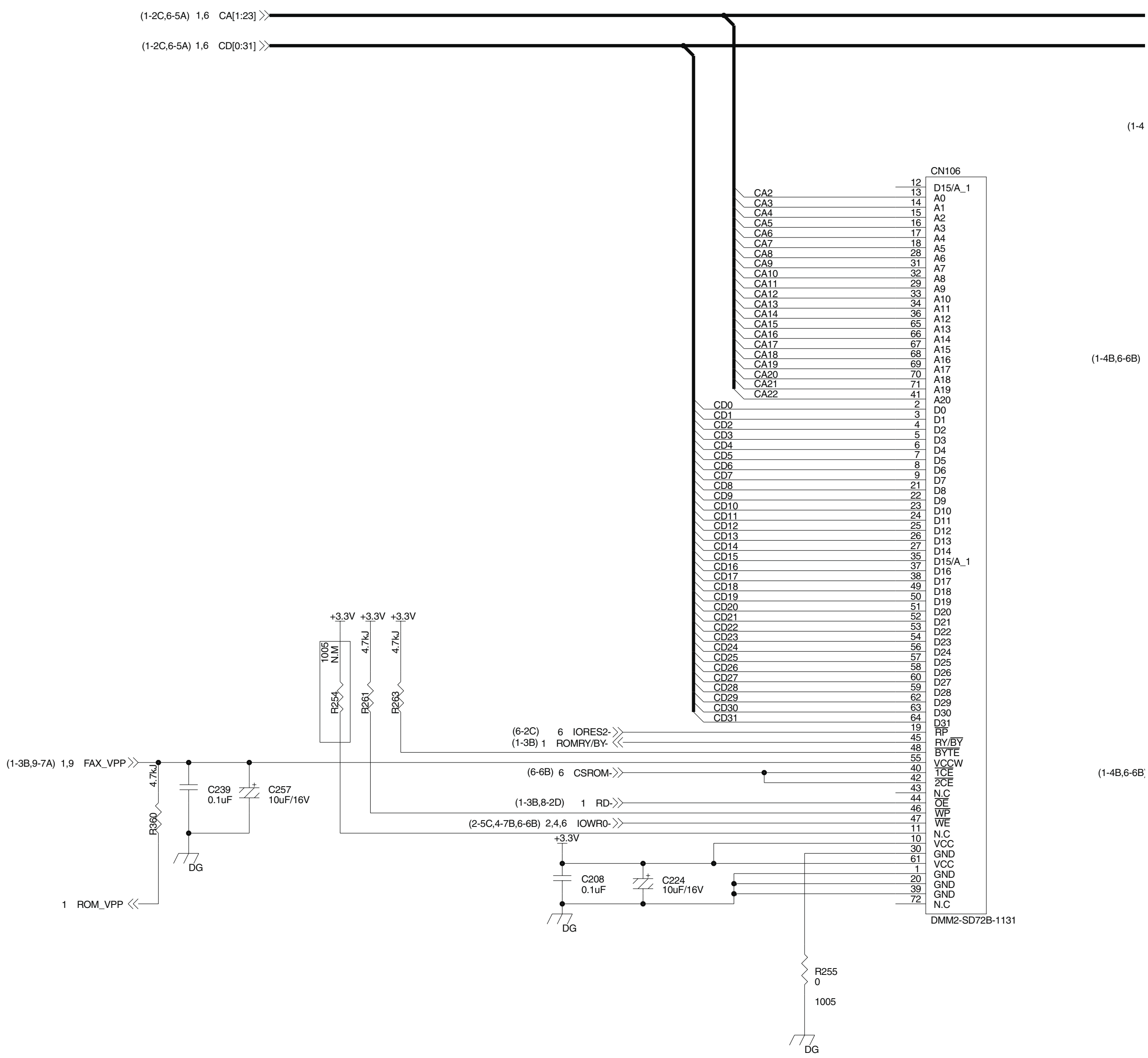

4
3
2
1
D
C
B
A
TP200
TP201
TP202
TP203
TP204
F-NETD- 7 (7-6C)
RHS 12 (12-5B)
EXHS- 12 (12-5B)
HS2- 12 (12-5B)
HS1- 12 (12-5B)
RESMFP 13 (13-8B)
MWAIT 7 (7-8C)
DP 12 (12-5B)
RCVMUTE- 12 (12-5B)
MICMUTE- 12 (12-5B)
CML 12 (12-5B)
S 12 (12-5B) (12-6A)
REC-
TP206
SPSELB 12 (12-8C)
SPSELA 12 (12-8C)
VOLC 12 (12-8C)
VOLB 12 (12-8C)
VOLA 12 (12-8C)
VRSEL3- 12 (12-6B)
VRSEL2- 12 (12-6B)
MPXA
TP207
VRSEL1- 12 (12-6B)
CION 12 (12-6B)
TXSELB 12 (12-4A)
TXSELA 12 (12-4B)
RXSEL 3 (3-4A)
EC 12
SPMUTE- 12 (12-3C)
MR 12 (12-6B)
IORES2- 8 (8-6B)
TP205
IORES1- 2 (2-5C)
IORES0- 10 (10-7A)
MANRES- 10 (10-6C)
CI- 12 (12-6B)
BZ 12 (12-8D)
+3.3V
R299
4.7kJ
IC127
TIGER-FAX-G/A
VDD SCLK BSEL PORTD[7] PORTD[6] PORTD[5] GND PORTD[4] PORTD[3] PORTD[2] PORTD[1] PORTD[0] VDD GND PORTC[7] PORTC[6] PORTC[5] PORTC[4] PORTC[3] GND PORTC[2] PORTC[1] PORTC[0] PORTB[7] PORTB[6] VDD GND PORTB[5] PORTB[4] PORTB[3] PORTB[2] PORTB[1] GND PORTB[0] PORTA[7] PORTA[6] PORTA[5] PORTA[4] VDD GND PORTA[3] PORTA[2] PORTA[1] PORTA[0] IORES[2] GND IORES[1] IORES[0] MANRES CI BZ VDD
208–157
TP208
TP210
TP212
TP214
TP216
TP218
TP219
TP221
GND GND TRST TCK TMS TDI TDO TESTB_R TESTB_U TTHR_U VDD TRES RES GND CLK GND CS0 CS3 CS4 CS5 CS6 BS RD/WR WE0 WE1 GND VDD WAIT IRQ CSROM CSMDM CSQMC GND CSSP[0] CSSP[1] IORD IOWR[0] IOWR[1] VDD GND DPACK ROM5V OEAB OEBA CBA GND TXD RXD RTS CTS GND GND
1–52
TP664
TP665
TP666
TP667
TP668
TP226
TP227
TP669
TP670
TP671
TP689
TP228
GND GND MCLK MCLKE MUDQM MLDQM MWE GND MCAS MRAS MCS MBS[1] MBS[0] GND VDD MA[11] MA[10] MA[9] MA[8] MA[7] GND MA[6] MA[5] MA[4] MA[3] GND VDD MA[2] MA[1] MA[0] MD[15] MD[14] GND MD[13] MD[12] MD[11] MD[10] MD[9] GND VDD MD[8] MD[7] MD[6] MD[5] MD[4] GND MD[3] MD[2] MD[1] MD[0] GND GND
156–105
MA[0:11] 11 (11-5D)
MD[0:15] 11 (11-5D)
TP209
TP211
TP213
TP215
TP217
TP220
TP222
TP223
TP224
TP225
R305 33J MCLK 11 (11-8D)
R306 33J MCLKE 11 (11-8D)
R307 33J UDQM 11 (11-8D)
R308 33J LDQM 11 (11-8D)
R309 33J MWE- 11 (11-8D)
R304 33J CAS- 11 (11-8D)
R303 33J RAS- 11 (11-8D)
R302 33J MCS- 11 (11-8D)
R301 33J BS1 11 (11-8D)
R300 33J BS0 11 (11-8D)
MA11 MA10 MA9 MA8 MA7 MA6 MA5 MA4 MA3 MA2 MA1 MA0
MD15 MD14 MD13 MD12 MD11 MD10 MD9 MD8 MD7 MD6 MD5 MD4 MD3 MD2 MD1 MD0
VDD SXTO SXTI GND A[1] A[2] A[3] A[4] A[5] A[6] A[7] A[8] A[9] A[10] A[11] A[12] A[13] A[14] A[15] A[16] A[17] A[18] A[19] A[20] A[21] VDD GND A[22] A[23] GND D[0] D[1] D[2] D[3] VDD GND D[4] D[5] D[6] D[7] VDD GND D[8] D[9] D[10] D[11] GND D[12] D[13] D[14] D[15] VDD
53–104
183
196
C277
C276
0.22uF
0.22uF
182
195
TP229
TP230
CA1 CA2 CA3 CA4 CA5 CA6 CA7 CA8 CA9 CA10 CA11 CA12 CA13 CA14 CA15 CA16 CA17 CA18 CA19 CA20 CA21 CA22 CA23
CD0 CD1 CD2 CD3 CD4 CD5 CD6 CD7 CD8 CD9 CD10 CD11 CD12 CD13 CD14 CD15

MDMC PWB (夜間FAX)

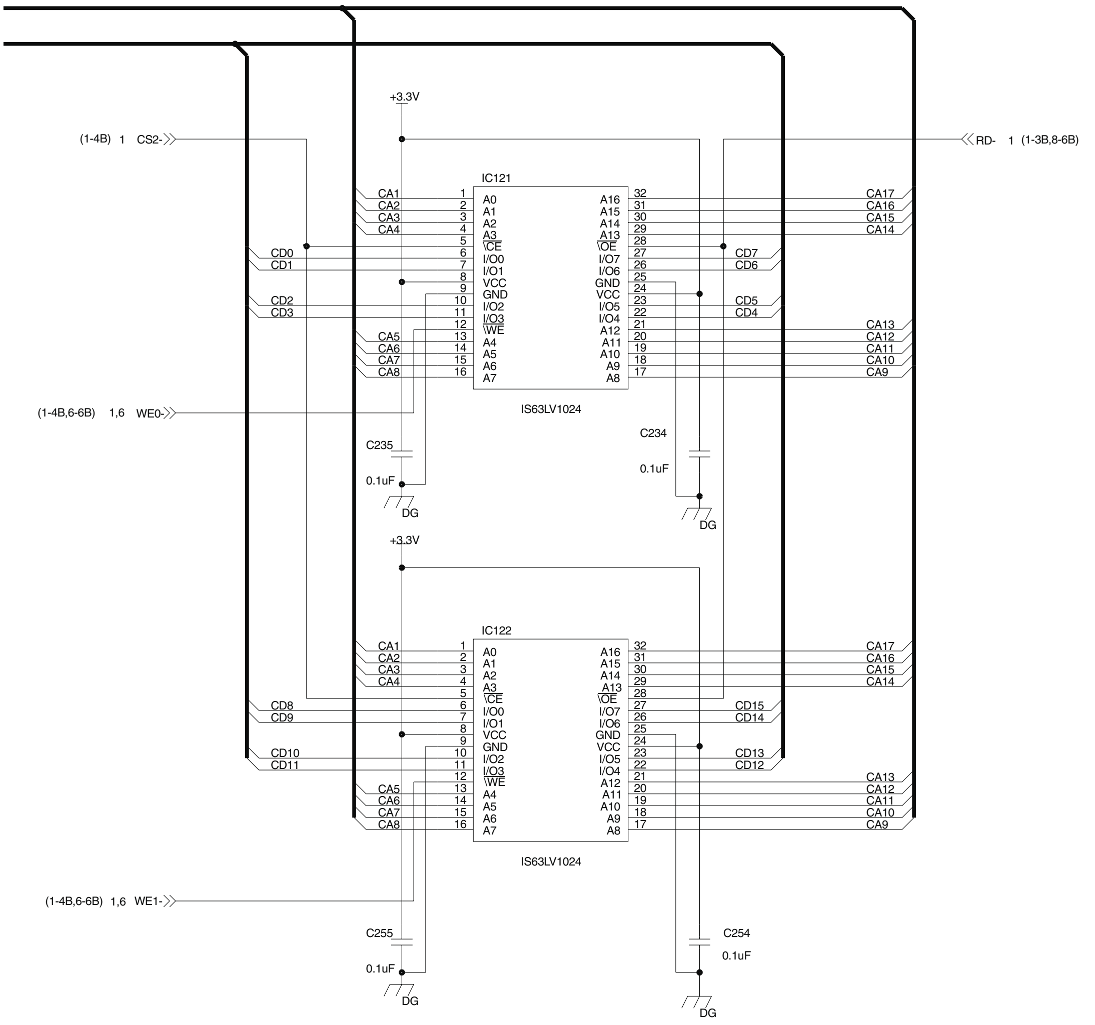

8
7
6
5
D
C
B
A
+5VS
R200
75kJ
R378
27kJ
(12-5A) 12 CID-
TP177
IC133A
74HC132
TP178
C193
1000pF(B)
DGS
JP104
T3B-SQ
(12-5A) 12 FNETD-
TP182
FNET 検出
1-2:ON
2-3:OFF
R204
27kJ
IC133B
74HC132
TP183
IC116A
74LCX04
TP184
F-NETD- 6 (6-2D)
C196
1000pF(B)
TP185
R197
10kJ
(6-6B,10-1D)
6,10 RESET-
IC116B
74LCX04
TR115
DTC363E
TP186
R198
10kJ
TR116
DTC363E
(6-2D) 6 MWAIT
TP187
TP188
IC133C
74HC132
TP189
R195
27kJ
DG
C167
N.M
1005
IC117B
74HC74
D
PR
+5VS
Q
CLK
CL
DGNDS
QI
TP190
TP192
CL
C294
0.1uF
IC133D
74HC132
TP642
+3.3V
C166
0.1uF
IC116D
74LCX04
TP197
IC116C
74LCX04
TP641
IC116E
74LCX04
TP198
IC116F
74LCX04
TP199
AGS
DGS
DG
+12VS
R233
470J(1/2W)-D
+5VS
ZD101
RD5.1E_B2
DGS


4
3
2
1
D
C
B
A
+5VS
C168
0.1uF
D
PR
+5VS
Q
CLK
CL
DGNDS
Q̄
5
6
4
14
1
7
TP176
IC117A
74HC74
DGS
TP179
+5VS
+5VS
C169
0.1uF
IC118A
R202
4.7kJ
TP639
IC118B
74HC132
TP180
74HC132
R201
0
TP181
MSW_OFF 9 (9-7A)
C194
1000pF(B)
DGS
DGS
+5VS
+12VS
R199
10kJ
R231
750J(1/4W)-D
IC118C
74HC132
IC118D
74HC132
TP640
TP191
IC120
Vout
Vcc
GND
PST994C
TP193
R232
750J(1/4W)-D
C195
N.M
1005
DGS
AGS
AGS
+12VS
R203
N.M
1005
TR117
DTC114E
TP194
TP196
TR118
DTA114E
TP195
R160
750J(1/4W)-D
VLED 9 (9-7A)
DGS
+12VS
D104
1SS133
+12VS
CN105
DCPR
C250
0.1uF-D
C249
100uF/25V
B3B-PH-K-S
R234
1.5kJ
TP672
TR119
2SD592A
R235
47kJ
AGS
DGS

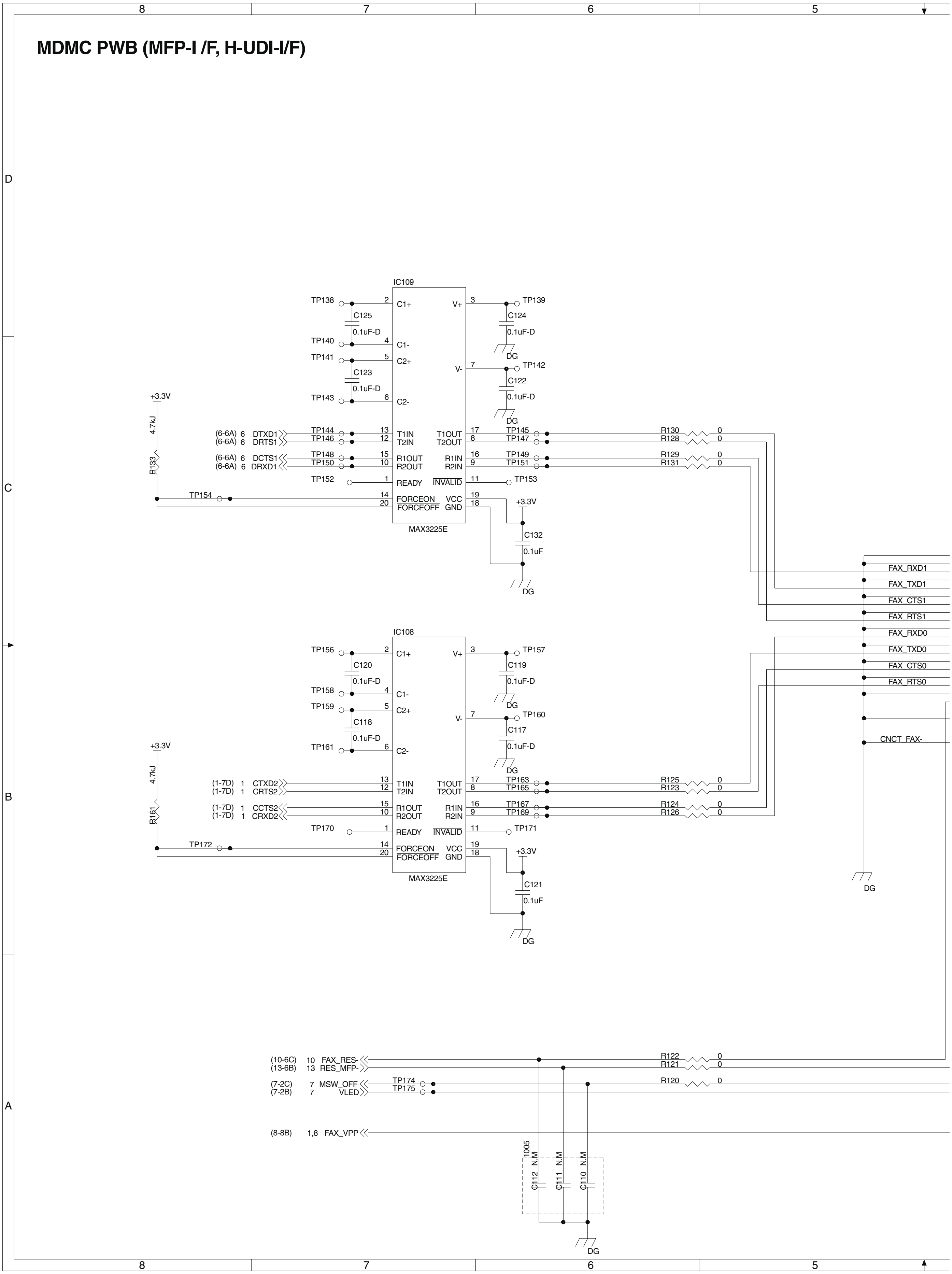
MDMC PWB (CPU ワークメモリ　プログラム ROM)

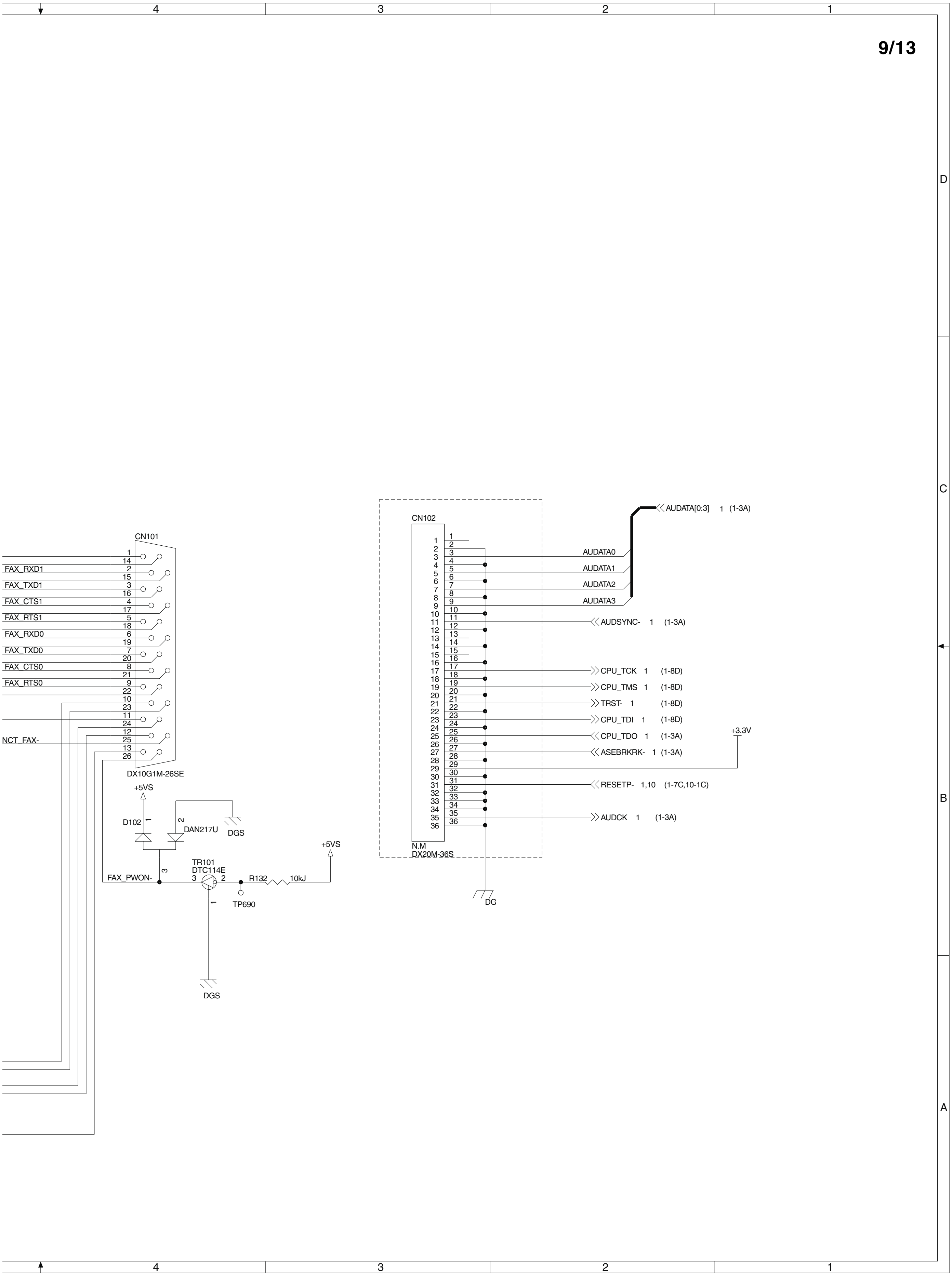


(1-2C,6-5A) 1,6 CA[1:23]
(1-2C,6-5A) 1,6 CD[0:31]
(1-4
(1-4B,6-6B)
(1-4B,6-6B
CN106
12 D15/A_1
13 CA2 A0
14 CA3 A1
15 CA4 A2
16 CA5 A3
17 CA6 A4
18 CA7 A5
28 CA8 A6
31 CA9 A7
32 CA10 A8
29 CA11 A9
33 CA12 A10
34 CA13 A11
36 CA14 A12
65 CA15 A13
66 CA16 A14
67 CA17 A15
68 CA18 A16
69 CA19 A17
70 CA20 A18
71 CA21 A19
41 CA22 A20
2 CD0 D0
3 CD1 D1
4 CD2 D2
5 CD3 D3
6 CD4 D4
7 CD5 D5
8 CD6 D6
9 CD7 D7
21 CD8 D8
22 CD9 D9
23 CD10 D10
24 CD11 D11
25 CD12 D12
26 CD13 D13
27 CD14 D14
35 CD15 D15/A_1
37 CD16 D16
38 CD17 D17
49 CD18 D18
50 CD19 D19
51 CD20 D20
52 CD21 D21
53 CD22 D22
54 CD23 D23
56 CD24 D24
57 CD25 D25
58 CD26 D26
60 CD27 D27
59 CD28 D28
62 CD29 D29
63 CD30 D30
64 CD31 D31
19 RP
45 RY/BY
48 BYTE
55 VCCW
40 TCE
42 2CE
43 N.C
44 OE
46 WP
47 WE
11 N.C
10 VCC
30 GND
61 VCC
1 GND
20 GND
39 GND
72 N.C
DMM2-SD72B-1131
(6-2C) 6 IORES2-
(1-3B) 1 ROMRY/BY-
(6-6B) 6 CSROM-
(1-3B,8-2D) 1 RD-
(2-5C,4-7B,6-6B) 2,4,6 IOWR0-
(1-3B,9-7A) 1,9 FAX_VPP
1 ROM_VPP
+3.3V +3.3V +3.3V
1005 N.M R254
4.7kJ R261
4.7kJ R263
4.7kJ R360
C239 0.1uF
C257 10uF/16V
DG
+3.3V
C208 0.1uF
C224 10uF/16V
DG
R255 0 1005
DG

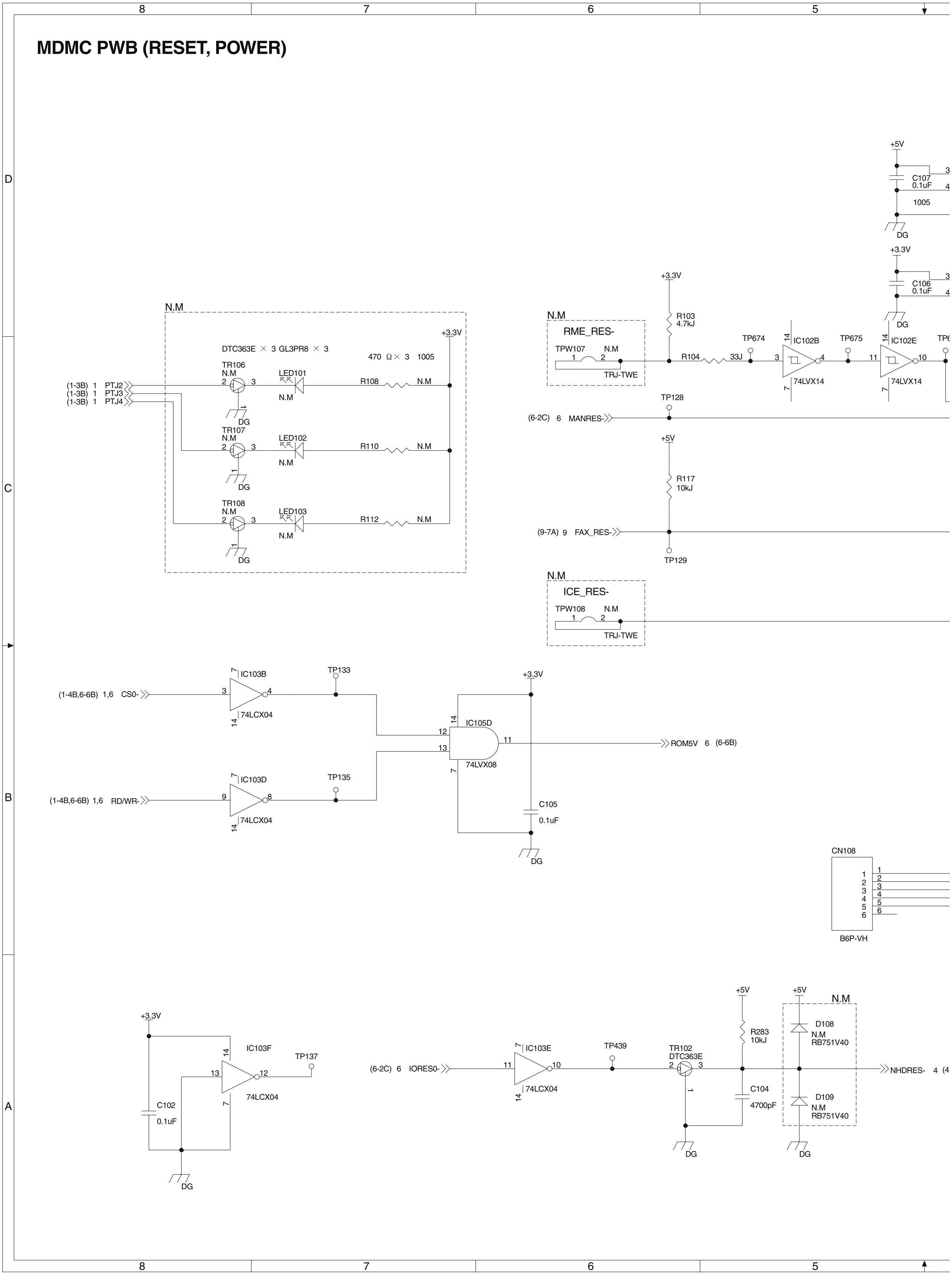

(1-4B) 1 CS2-
+3.3V
RD- 1 (1-3B,8-6B)
IC121
CA1
CA2
CA3
CA4
CD0
CD1
CD2
CD3
CA5
CA6
CA7
CA8
A0
A1
A2
A3
\CE
I/O0
I/O1
VCC
GND
I/O2
I/O3
\WE
A4
A5
A6
A7
A16
A15
A14
A13
\OE
I/O7
I/O6
GND
VCC
I/O5
I/O4
A12
A11
A10
A9
A8
CA17
CA16
CA15
CA14
CD7
CD6
CD5
CD4
CA13
CA12
CA11
CA10
CA9
IS63LV1024
(1-4B,6-6B) 1,6 WE0-
C235
0.1uF
DG
C234
0.1uF
DG
+3.3V
IC122
CD8
CD9
CD10
CD11
CD15
CD14
CD13
CD12
IS63LV1024
(1-4B,6-6B) 1,6 WE1-
C255
0.1uF
DG
C254
0.1uF
DG

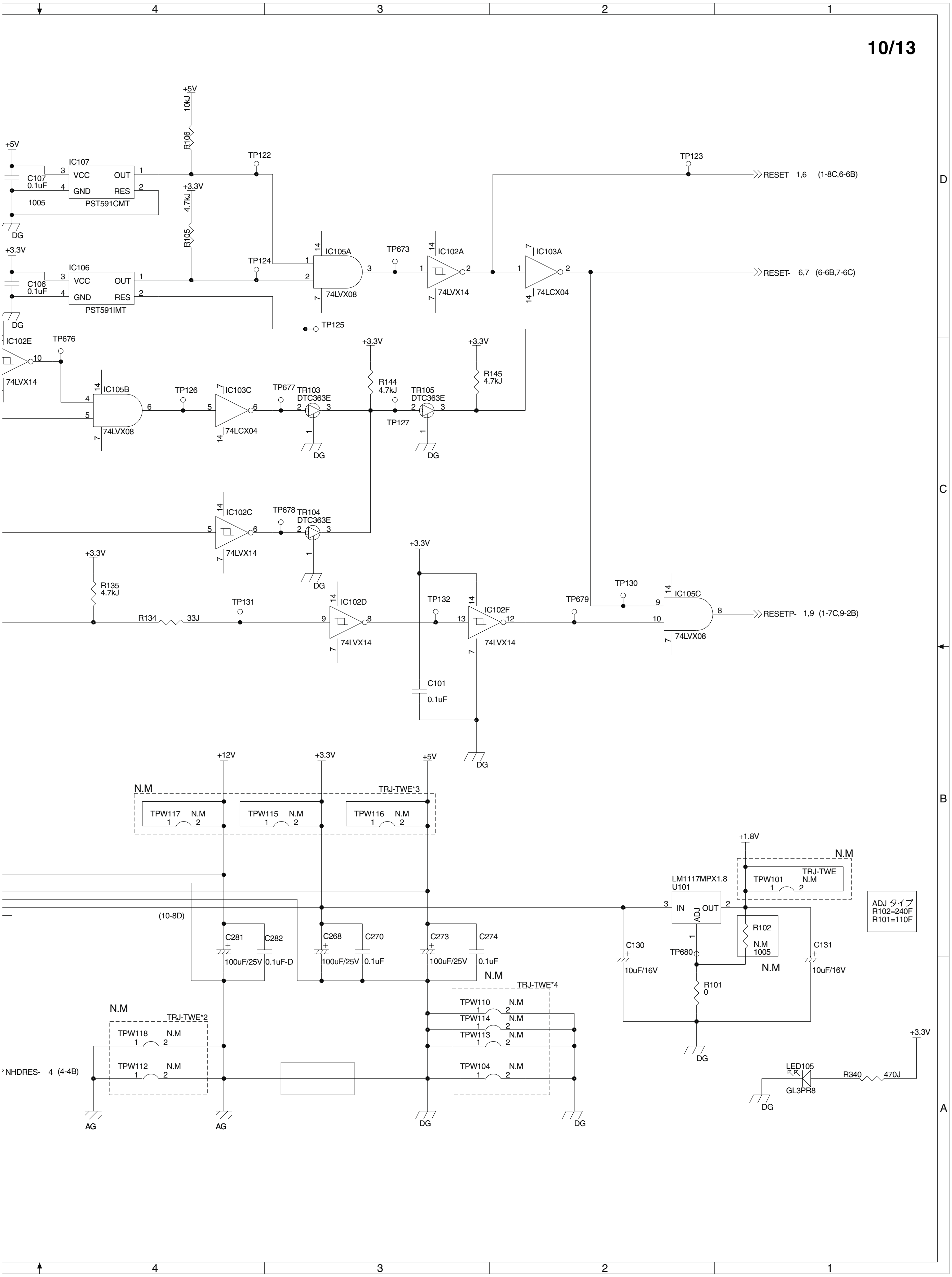
MDMC PWB (MFP-I /F, H-UDI-I/F)


8
7
6
5
D
C
B
A
IC109
TP138
C125
0.1uF-D
TP140
TP141
C123
0.1uF-D
TP143
C1+
C1-
C2+
C2-
V+
V-
TP139
C124
0.1uF-D
DG
TP142
C122
0.1uF-D
DG
+3.3V
4.7kJ
R133
(6-6A) 6 DTXD1
(6-6A) 6 DRTS1
(6-6A) 6 DCTS1
(6-6A) 6 DRXD1
TP144
TP146
TP148
TP150
TP152
T1IN
T2IN
R1OUT
R2OUT
READY
T1OUT
T2OUT
R1IN
R2IN
INVALID
TP145
TP147
TP149
TP151
TP153
R130 0
R128 0
R129 0
R131 0
TP154
FORCEON
FORCEOFF
VCC
GND
+3.3V
C132
0.1uF
DG
MAX3225E
FAX_RXD1
FAX_TXD1
FAX_CTS1
FAX_RTS1
FAX_RXD0
FAX_TXD0
FAX_CTS0
FAX_RTS0
CNCT_FAX-
DG
IC108
TP156
C120
0.1uF-D
TP158
TP159
C118
0.1uF-D
TP161
TP157
C119
0.1uF-D
DG
TP160
C117
0.1uF-D
DG
+3.3V
4.7kJ
R161
(1-7D) 1 CTXD2
(1-7D) 1 CRTS2
(1-7D) 1 CCTS2
(1-7D) 1 CRXD2
TP163
TP165
TP167
TP169
TP170
TP171
R125 0
R123 0
R124 0
R126 0
TP172
+3.3V
C121
0.1uF
DG
MAX3225E
(10-6C) 10 FAX_RES-
(13-6B) 13 RES_MFP-
(7-2C) 7 MSW_OFF
(7-2B) 7 VLED
TP174
TP175
R122 0
R121 0
R120 0
(8-8B) 1,8 FAX_VPP
1005
C112 N.M
C111 N.M
C110 N.M
DG

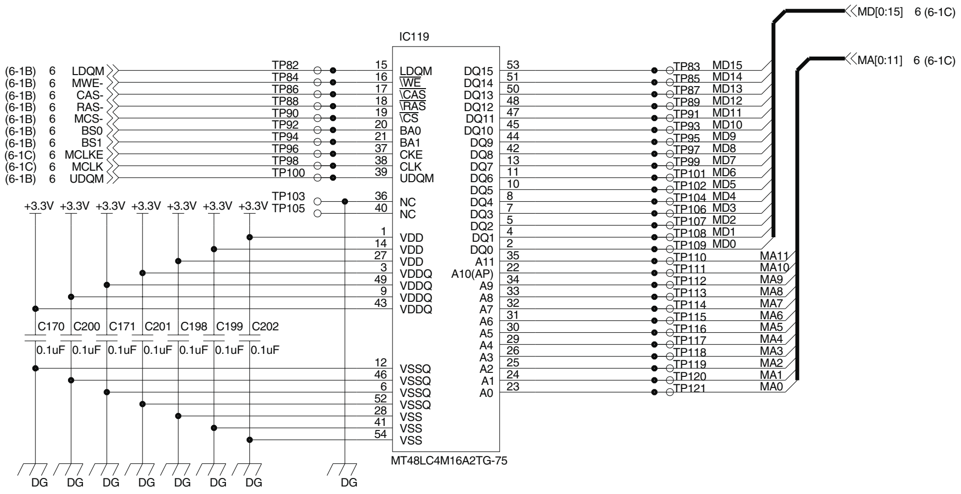

4
3
2
1
D
C
B
A
CN101
FAX_RXD1
FAX_TXD1
FAX_CTS1
FAX_RTS1
FAX_RXD0
FAX_TXD0
FAX_CTS0
FAX_RTS0
NCT_FAX-
1
14
2
15
3
16
4
17
5
18
6
19
7
20
8
21
9
22
10
23
11
24
12
25
13
26
DX10G1M-26SE
+5VS
D102
1
2
DAN217U
DGS
FAX_PWON-
3
TR101
DTC114E
3
2
1
R132
10kJ
+5VS
TP690
DGS
CN102
N.M
DX20M-36S
DG
AUDATA[0:3] 1 (1-3A)
AUDATA0
AUDATA1
AUDATA2
AUDATA3
AUDSYNC- 1 (1-3A)
CPU_TCK 1 (1-8D)
CPU_TMS 1 (1-8D)
TRST- 1 (1-8D)
CPU_TDI 1 (1-8D)
CPU_TDO 1 (1-3A)
ASEBRKRK- 1 (1-3A)
+3.3V
RESETP- 1,10 (1-7C,10-1C)
AUDCK 1 (1-3A)

MDMC PWB (RESET, POWER)


8
7
6
5
D
C
B
A
N.M
DTC363E × 3 GL3PR8 × 3
470 Ω × 3 1005
+3.3V
(1-3B) 1 PTJ2
(1-3B) 1 PTJ3
(1-3B) 1 PTJ4
TR106
N.M
LED101
R108
N.M
TR107
N.M
LED102
R110
TR108
N.M
LED103
R112
DG
RME_RES-
TPW107
TRJ-TWE
R103
4.7kJ
R104
33J
TP674
IC102B
74LVX14
TP675
IC102E
TP128
(6-2C) 6 MANRES-
+5V
R117
10kJ
(9-7A) 9 FAX_RES-
TP129
ICE_RES-
TPW108
C107
0.1uF
1005
C106
0.1uF
(1-4B,6-6B) 1,6 CS0-
IC103B
74LCX04
TP133
(1-4B,6-6B) 1,6 RD/WR-
IC103D
TP135
IC105D
74LVX08
ROM5V 6 (6-6B)
C105
0.1uF
CN108
B6P-VH
IC103F
TP137
C102
0.1uF
(6-2C) 6 IORES0-
IC103E
TP439
TR102
DTC363E
R283
10kJ
C104
4700pF
D108
N.M
RB751V40
D109
N.M
RB751V40
NHDRES- 4


4
3
2
1
D
C
B
A
+5V
10kJ
R106
IC107
VCC
OUT
GND
RES
PST591CMT
C107
0.1uF
1005
DG
+3.3V
4.7kJ
R105
IC106
PST591IMT
C106
0.1uF
TP122
TP124
TP125
IC105A
74LVX08
TP673
IC102A
74LVX14
IC103A
74LCX04
TP123
RESET 1,6 (1-8C,6-6B)
RESET- 6,7 (6-6B,7-6C)
IC102E
TP676
74LVX14
IC105B
74LVX08
TP126
IC103C
74LCX04
TP677
TR103
DTC363E
R144
4.7kJ
TP127
TR105
DTC363E
R145
4.7kJ
IC102C
74LVX14
TP678
TR104
DTC363E
R135
4.7kJ
R134
33J
TP131
IC102D
74LVX14
TP132
IC102F
74LVX14
C101
0.1uF
TP679
TP130
IC105C
74LVX08
RESETP- 1,9 (1-7C,9-2B)
+12V
N.M
TRJ-TWE*3
TPW117 N.M
TPW115 N.M
TPW116 N.M
(10-8D)
C281
100uF/25V
C282
0.1uF-D
C268
100uF/25V
C270
0.1uF
C273
100uF/25V
C274
0.1uF
TRJ-TWE*4
TPW110 N.M
TPW114 N.M
TPW113 N.M
TPW104 N.M
TRJ-TWE*2
TPW118 N.M
TPW112 N.M
NHDRES- 4 (4-4B)
AG
+1.8V
TRJ-TWE
TPW101 N.M
LM1117MPX1.8
U101
IN
OUT
ADJ
R102
N.M
1005
R101
0
TP680
C130
10uF/16V
C131
10uF/16V
ADJ タイプ
R102=240F
R101=110F
LED105
GL3PR8
R340
470J

MDMC PWB (SDRAM)


IC119
MT48LC4M16A2TG-75
(6-1B) 6 LDQM
(6-1B) 6 MWE-
(6-1B) 6 CAS-
(6-1B) 6 RAS-
(6-1B) 6 MCS-
(6-1B) 6 BS0
(6-1B) 6 BS1
(6-1C) 6 MCLKE
(6-1C) 6 MCLK
(6-1B) 6 UDQM
TP82
TP84
TP86
TP88
TP90
TP92
TP94
TP96
TP98
TP100
TP103
TP105
15 LDQM
16 WE
17 CAS
18 RAS
19 CS
20 BA0
21 BA1
37 CKE
38 CLK
39 UDQM
36 NC
40 NC
1 VDD
14 VDD
27 VDD
3 VDDQ
49 VDDQ
9 VDDQ
43 VDDQ
12 VSSQ
46 VSSQ
6 VSSQ
52 VSSQ
28 VSS
41 VSS
54 VSS
+3.3V
C170
C200
C171
C201
C198
C199
C202
0.1uF
DG
DQ15 53
DQ14 51
DQ13 50
DQ12 48
DQ11 47
DQ10 45
DQ9 44
DQ8 42
DQ7 13
DQ6 11
DQ5 10
DQ4 8
DQ3 7
DQ2 5
DQ1 4
DQ0 2
A11 35
A10(AP) 22
A9 34
A8 33
A7 32
A6 31
A5 30
A4 29
A3 26
A2 25
A1 24
A0 23
TP83 MD15
TP85 MD14
TP87 MD13
TP89 MD12
TP91 MD11
TP93 MD10
TP95 MD9
TP97 MD8
TP99 MD7
TP101 MD6
TP102 MD5
TP104 MD4
TP106 MD3
TP107 MD2
TP108 MD1
TP109 MD0
TP110 MA11
TP111 MA10
TP112 MA9
TP113 MA8
TP114 MA7
TP115 MA6
TP116 MA5
TP117 MA4
TP118 MA3
TP119 MA2
TP120 MA1
TP121 MA0
MD[0:15] 6 (6-1C)
MA[0:11] 6 (6-1C)

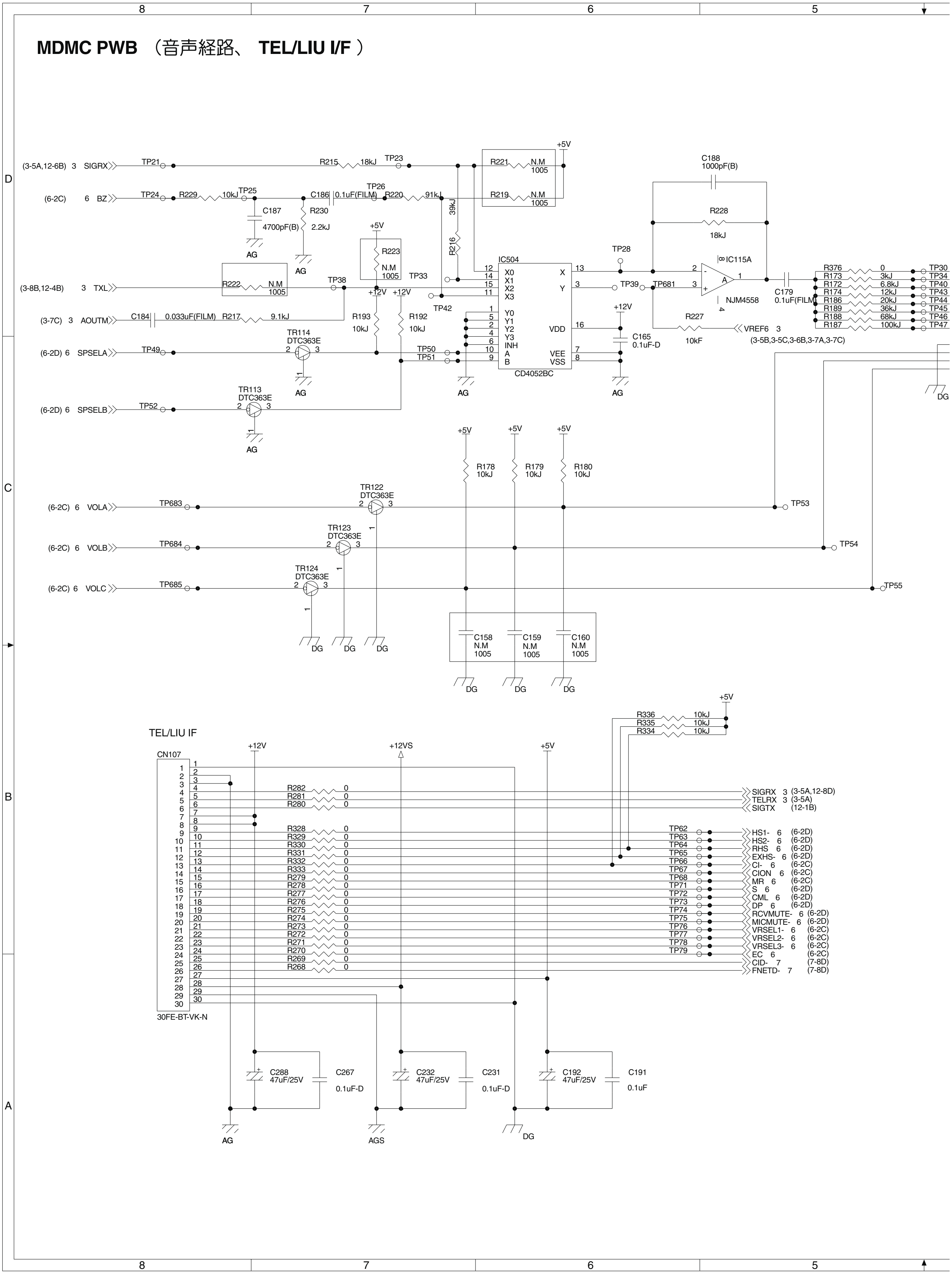
D

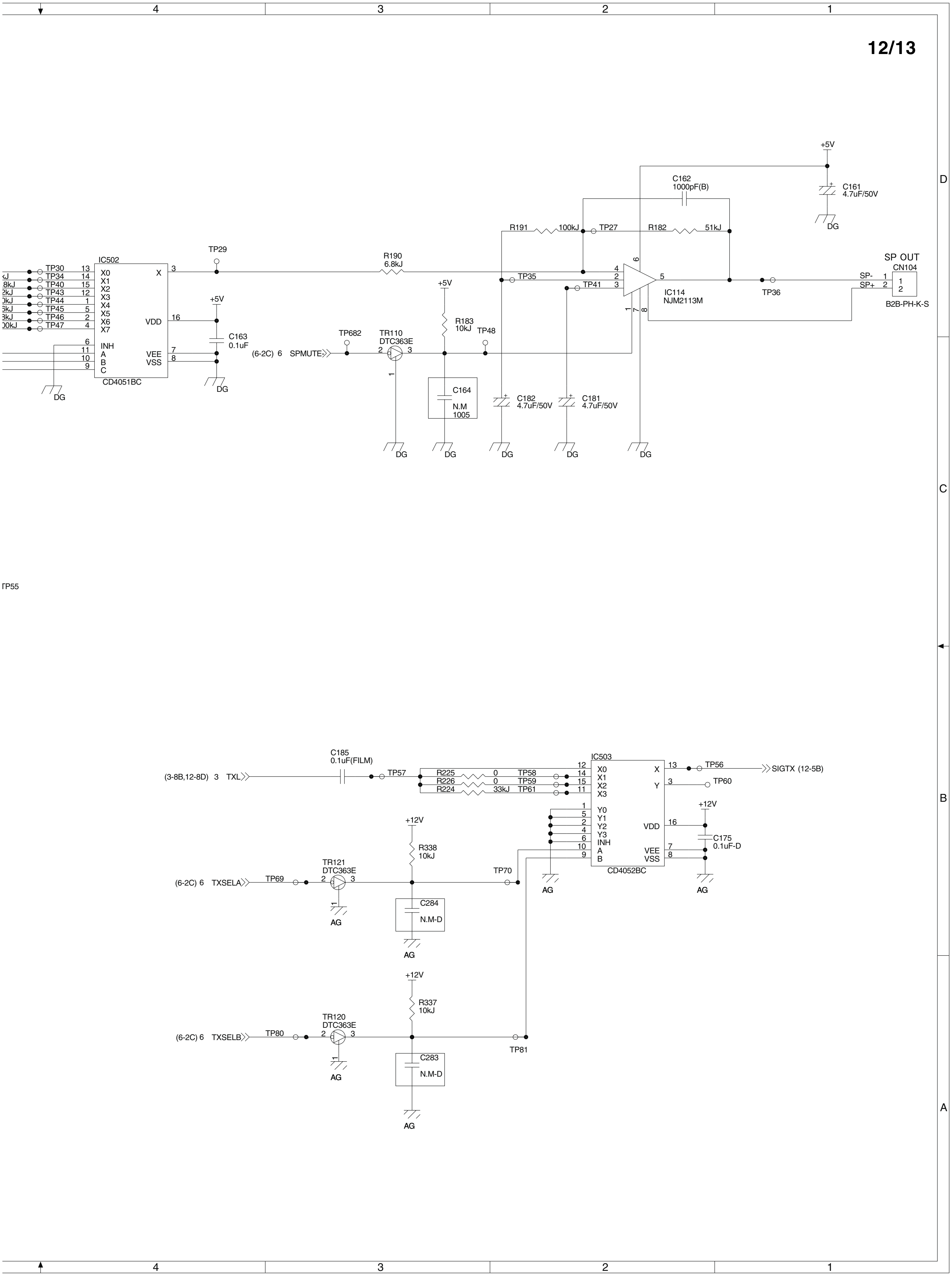
C

B

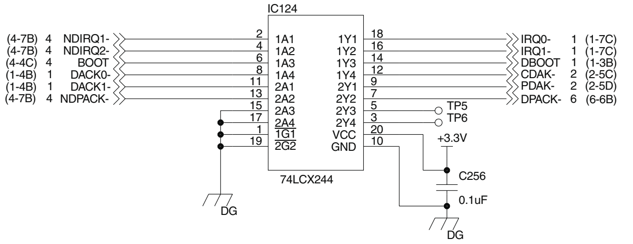
A

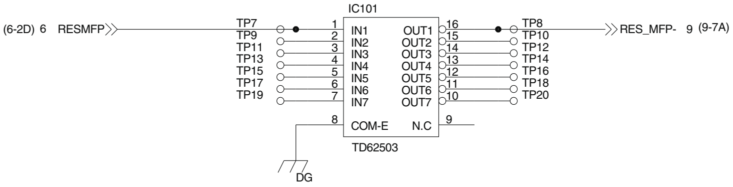
MDMC PWB （音声経路、 TEL/LIU I/F ）


8
7
6
5
D
C
B
A
(3-5A,12-6B) 3 SIGRX
TP21
R215 18kJ
TP23
R221 N.M 1005
R219 N.M 1005
+5V
(6-2C) 6 BZ
TP24
R229 10kJ
TP25
C186 0.1uF(FILM)
TP26
R220 91kJ
C187 4700pF(B)
R230 2.2kJ
AG
R216 39kJ
R223 N.M 1005
TP33
(3-8B,12-4B) 3 TXL
R222 N.M 1005
TP38
(3-7C) 3 AOUTM
C184 0.033uF(FILM)
R217 9.1kJ
+12V
R193 10kJ
R192 10kJ
TP42
IC504
CD4052BC
X0 X1 X2 X3 Y0 Y1 Y2 Y3 INH A B X Y VDD VEE VSS
TP50
TP51
(6-2D) 6 SPSELA
TP49
TR114 DTC363E
(6-2D) 6 SPSELB
TP52
TR113 DTC363E
C165 0.1uF-D
TP28
TP39
TP681
C188 1000pF(B)
R228 18kJ
IC115A
NJM4558
R227 10kF
VREF6 3
(3-5B,3-5C,3-6B,3-7A,3-7C)
C179 0.1uF(FILM)
R376 0
R173 3kJ
R172 6.8kJ
R174 12kJ
R186 20kJ
R189 36kJ
R188 68kJ
R187 100kJ
TP30 TP34 TP40 TP43 TP44 TP45 TP46 TP47
DG
R178 10kJ
R179 10kJ
R180 10kJ
(6-2C) 6 VOLA
TP683
TR122 DTC363E
TP53
(6-2C) 6 VOLB
TP684
TR123 DTC363E
TP54
(6-2C) 6 VOLC
TP685
TR124 DTC363E
TP55
C158 N.M 1005
C159 N.M 1005
C160 N.M 1005
TEL/LIU IF
CN107
30FE-BT-VK-N
+12VS
R282 0
R281 0
R280 0
SIGRX 3 (3-5A,12-8D)
TELRX 3 (3-5A)
SIGTX (12-1B)
R336 10kJ
R335 10kJ
R334 10kJ
R328 R329 R330 R331 R332 R333 R279 R278 R277 R276 R275 R274 R273 R272 R271 R270 R269 R268 0
TP62 TP63 TP64 TP65 TP66 TP67 TP68 TP71 TP72 TP73 TP74 TP75 TP76 TP77 TP78 TP79
HS1- 6 (6-2D)
HS2- 6 (6-2D)
RHS 6 (6-2D)
EXHS- 6 (6-2D)
CI- 6 (6-2C)
CION 6 (6-2C)
MR 6 (6-2C)
S 6 (6-2D)
CML 6 (6-2D)
DP 6 (6-2D)
RCVMUTE- 6 (6-2D)
MICMUTE- 6 (6-2D)
VRSEL1- 6 (6-2C)
VRSEL2- 6 (6-2C)
VRSEL3- 6 (6-2C)
EC 6 (6-2C)
CID- 7 (7-8D)
FNETD- 7 (7-8D)
C288 47uF/25V
C267 0.1uF-D
C232 47uF/25V
C231 0.1uF-D
C192 47uF/25V
C191 0.1uF
AGS


4
3
2
1
D
C
B
A
IC502
CD4051BC
X0
X1
X2
X3
X4
X5
X6
X7
X
VDD
INH
A
B
C
VEE
VSS
TP30
TP34
TP40
TP43
TP44
TP45
TP46
TP47
TP29
+5V
C163
0.1uF
DG
R190
6.8kJ
TP682
TR110
DTC363E
(6-2C) 6 SPMUTE
+5V
R183
10kJ
TP48
C164
N.M
1005
C182
4.7uF/50V
C181
4.7uF/50V
R191
100kJ
TP27
R182
51kJ
C162
1000pF(B)
+5V
C161
4.7uF/50V
TP35
TP41
IC114
NJM2113M
TP36
SP OUT
CN104
SP-
SP+
B2B-PH-K-S
TP55
(3-8B,12-8D) 3 TXL
C185
0.1uF(FILM)
TP57
R225 0
R226 0
R224 33kJ
TP58
TP59
TP61
IC503
CD4052BC
Y0
Y1
Y2
Y3
TP56
SIGTX (12-5B)
TP60
+12V
C175
0.1uF-D
AG
+12V
R338
10kJ
TR121
DTC363E
(6-2C) 6 TXSELA
TP69
TP70
C284
N.M-D
+12V
R337
10kJ
TR120
DTC363E
(6-2C) 6 TXSELB
TP80
TP81
C283
N.M-D

MDMC PWB （3V-5V 変換）


IC124
(4-7B) 4 NDIRQ1-
(4-7B) 4 NDIRQ2-
(4-4C) 4 BOOT
(1-4B) 1 DACK0-
(1-4B) 1 DACK1-
(4-7B) 4 NDPACK-
2 1A1
4 1A2
6 1A3
8 1A4
11 2A1
13 2A2
15 2A3
17 2A4
1 1G1
19 2G2
1Y1 18
1Y2 16
1Y3 14
1Y4 12
2Y1 9
2Y2 7
2Y3 5
2Y4 3
VCC 20
GND 10
IRQ0- 1 (1-7C)
IRQ1- 1 (1-7C)
DBOOT 1 (1-3B)
CDAK- 2 (2-5C)
PDAK- 2 (2-5D)
DPACK- 6 (6-6B)
TP5
TP6
+3.3V
C256
0.1uF
74LCX244
DG
DG


IC101
(6-2D) 6 RESMFP
TP7
TP9
TP11
TP13
TP15
TP17
TP19
1 IN1
2 IN2
3 IN3
4 IN4
5 IN5
6 IN6
7 IN7
8 COM-E
OUT1 16
OUT2 15
OUT3 14
OUT4 13
OUT5 12
OUT6 11
OUT7 10
N.C 9
TP8
TP10
TP12
TP14
TP16
TP18
TP20
RES_MFP- 9 (9-7A)
TD62503
DG

4 3 2 1

13/13

D

C

B

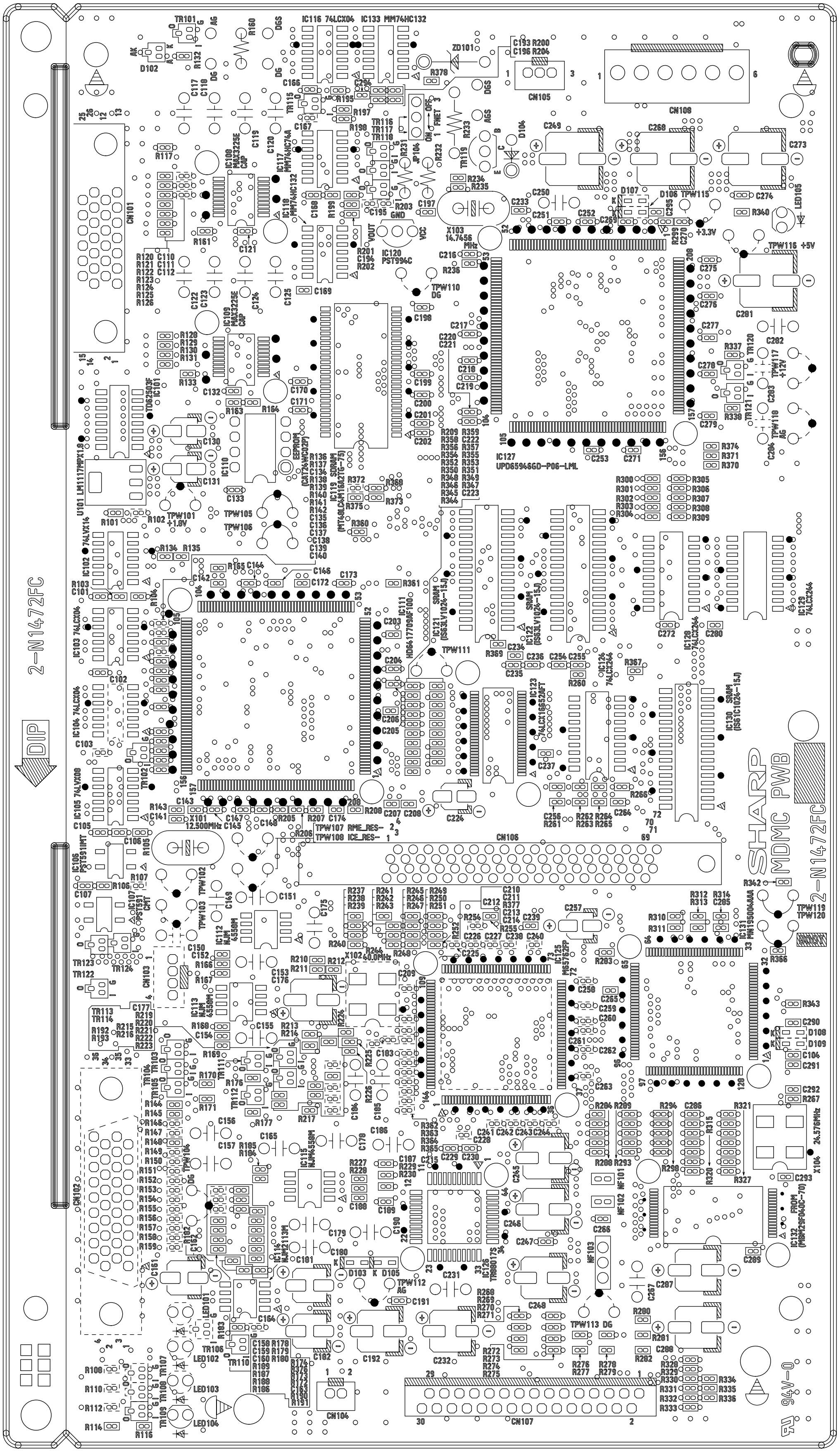
A

4 3 2 1

MDMC PWB

PARTS LAYOUT / 部品配置図

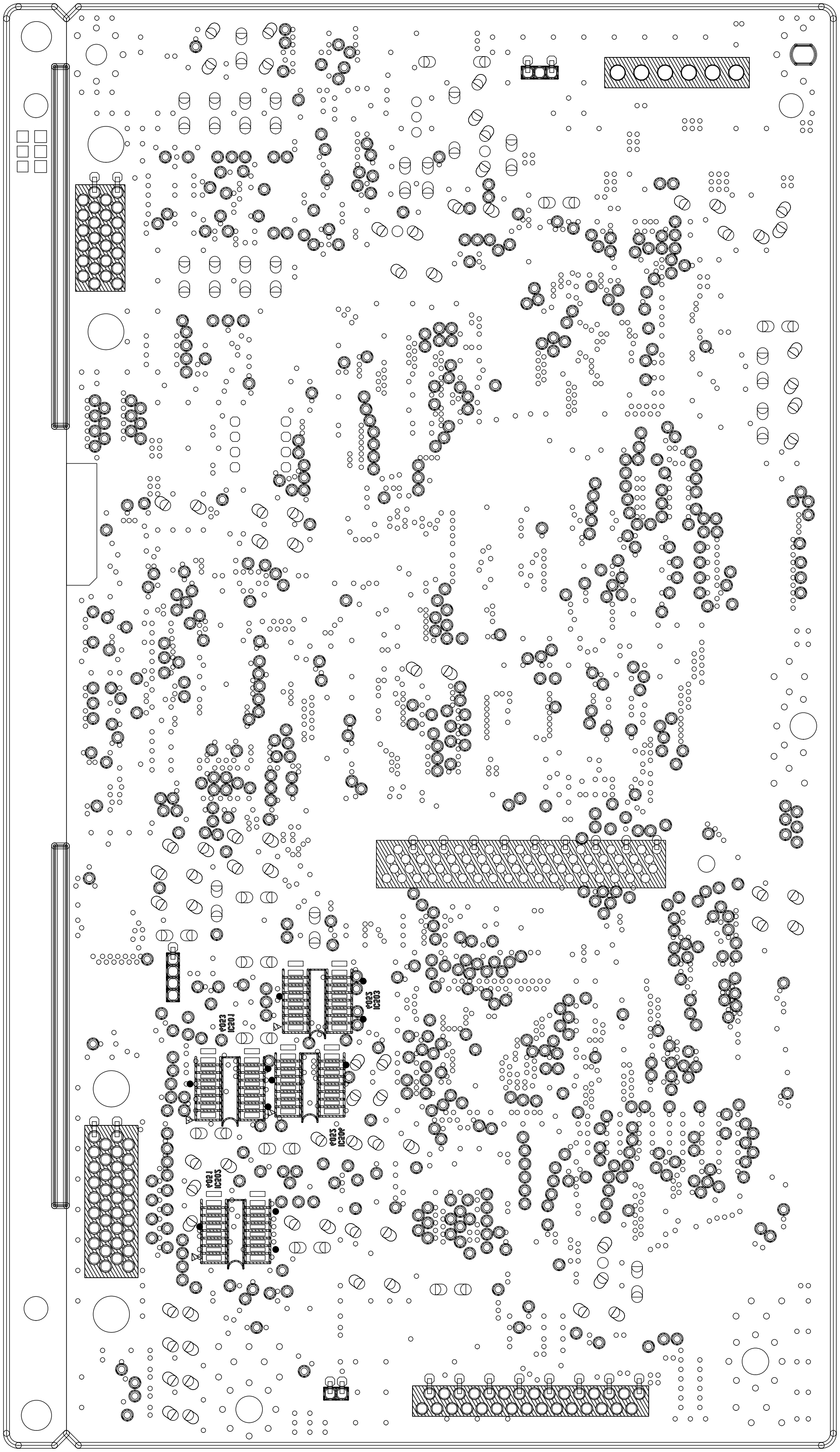
[PARTS SURFACE / 部品面]


2-N1472FC
DIP
SHARP
MDMC PWB
2-N1472FC
94V-0
CN101
CN102
CN104
CN105
CN106
CN107
CN108
IC127
UPD65946GD-P06-LML

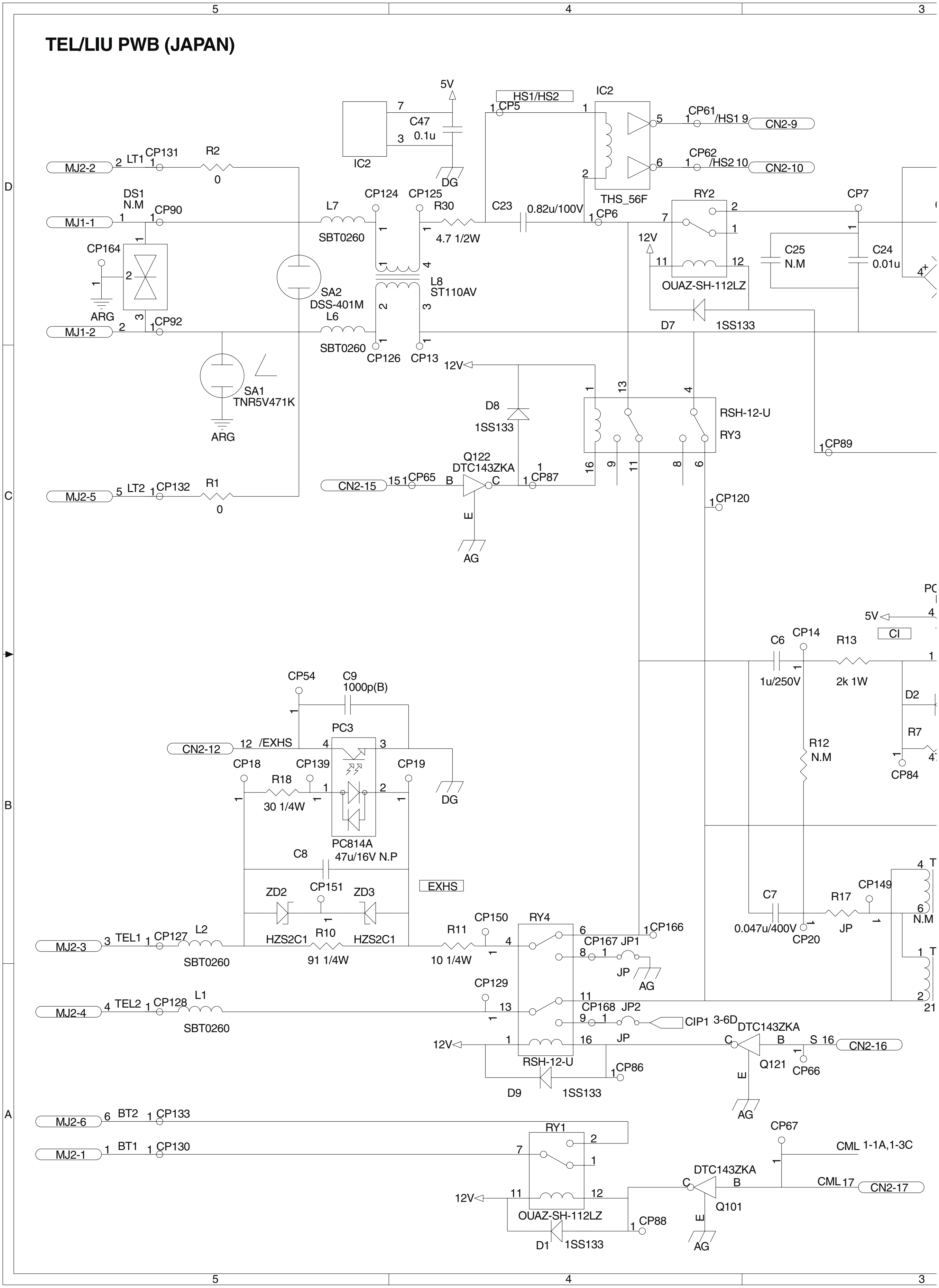
MDMC PWB

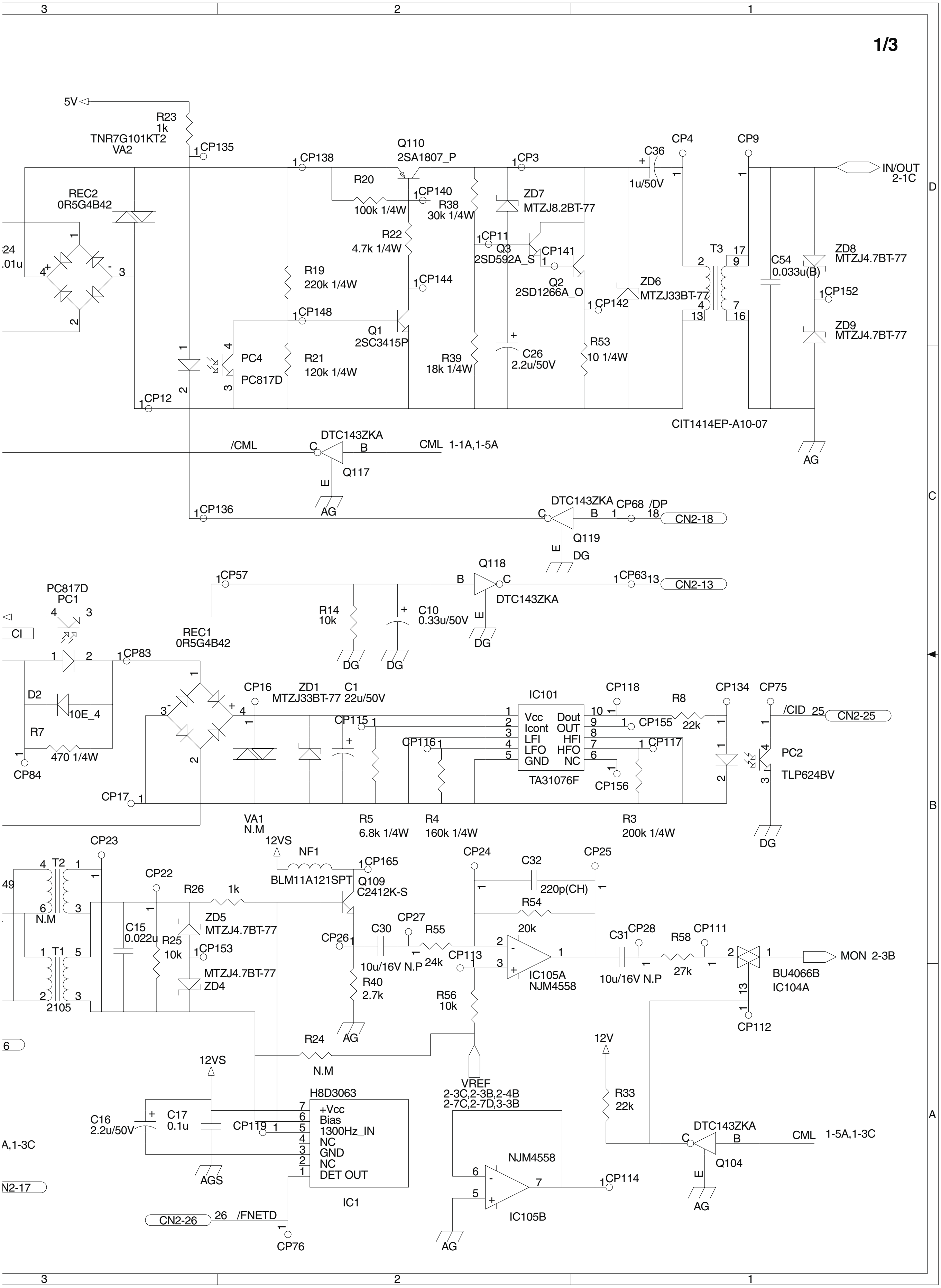
PARTS LAYOUT / 部品配置図

[SOLDER SURFACE / 半田面]


IC201
IC203
IC204
IC202

M. TEL/LIU PWB (JAPAN)


TEL/LIU PWB (JAPAN)
5
4
3
D
C
B
A
MJ2-2
LT1
CP131
R2
0
MJ1-1
DS1
N.M
CP90
CP164
ARG
MJ1-2
CP92
SA1
TNR5V471K
ARG
MJ2-5
LT2
CP132
R1
0
5V
IC2
C47
0.1u
DG
HS1/HS2
CP5
IC2
THS_56F
CP61
/HS1 9
CN2-9
CP62
/HS2 10
CN2-10
CP124
CP125
L7
SBT0260
R30
4.7 1/2W
C23
0.82u/100V
CP6
SA2
DSS-401M
L8
ST110AV
L6
SBT0260
CP126
CP13
RY2
OUAZ-SH-112LZ
12V
C25
N.M
C24
0.01u
CP7
D7
1SS133
12V
D8
1SS133
RSH-12-U
RY3
CP89
Q122
DTC143ZKA
CN2-15
CP65
B
C
E
CP87
AG
CP120
PC
5V
CI
C6
CP14
R13
1u/250V
2k 1W
D2
R7
CP84
R12
N.M
CP54
C9
1000p(B)
PC3
CN2-12
/EXHS
CP18
CP139
CP19
R18
30 1/4W
DG
PC814A
47u/16V N.P
C8
EXHS
ZD2
CP151
ZD3
HZS2C1
R10
HZS2C1
91 1/4W
MJ2-3
TEL1
CP127
L2
SBT0260
R11
10 1/4W
CP150
RY4
CP166
CP167 JP1
JP
AG
C7
0.047u/400V
CP20
R17
JP
CP149
N.M
CP129
MJ2-4
TEL2
CP128
L1
SBT0260
CP168 JP2
CIP1 3-6D
JP
DTC143ZKA
CN2-16
Q121
CP66
12V
RSH-12-U
CP86
D9
1SS133
AG
MJ2-6
BT2
CP133
MJ2-1
BT1
CP130
RY1
CP67
CML 1-1A,1-3C
DTC143ZKA
CML 17
CN2-17
12V
OUAZ-SH-112LZ
Q101
CP88
D1
1SS133
AG


1/3
5V
R23 1k
TNR7G101KT2 VA2
CP135
REC2 0R5G4B42
CP138
Q110 2SA1807_P
CP3
C36 1u/50V
CP4
CP9
IN/OUT 2-1C
R20 100k 1/4W
CP140
R38 30k 1/4W
ZD7 MTZJ8.2BT-77
R22 4.7k 1/4W
CP11
Q3 2SD592A_S
CP141
Q2 2SD1266A_O
T3
C54 0.033u(B)
ZD8 MTZJ4.7BT-77
CP152
ZD9 MTZJ4.7BT-77
R19 220k 1/4W
CP144
CP148
Q1 2SC3415P
ZD6 MTZJ33BT-77
CP142
R53 10 1/4W
R39 18k 1/4W
C26 2.2u/50V
PC4 PC817D
R21 120k 1/4W
CP12
CIT1414EP-A10-07
AG
/CML
DTC143ZKA
Q117
CML 1-1A,1-5A
CP136
Q119
CP68 /DP
CN2-18
DG
Q118
CP57
CP63
CN2-13
PC817D PC1
CI
R14 10k
C10 0.33u/50V
REC1 0R5G4B42
CP83
D2 10E_4
R7 470 1/4W
CP84
CP16
ZD1 MTZJ33BT-77
C1 22u/50V
CP115
CP116
IC101
Vcc Icont LFI LFO GND
Dout OUT HFI HFO NC
TA31076F
CP118
R8 22k
CP155
CP117
CP156
CP134
CP75
/CID
CN2-25
PC2 TLP624BV
CP17
VA1 N.M
R5 6.8k 1/4W
R4 160k 1/4W
R3 200k 1/4W
CP23
T2
N.M
T1
2105
CP22
R26 1k
ZD5 MTZJ4.7BT-77
C15 0.022u
R25 10k
CP153
MTZJ4.7BT-77 ZD4
12VS
NF1 BLM11A121SPT
CP165
Q109 C2412K-S
CP26
C30 10u/16V N.P
CP27
R55 24k
R40 2.7k
CP24
C32 220p(CH)
CP25
R54 20k
CP113
IC105A NJM4558
R56 10k
C31 10u/16V N.P
CP28
R58 27k
CP111
BU4066B IC104A
MON 2-3B
CP112
R24 N.M
VREF 2-3C,2-3B,2-4B 2-7C,2-7D,3-3B
12V
R33 22k
H8D3063
+Vcc Bias 1300Hz_IN NC GND NC DET OUT
IC1
C16 2.2u/50V
C17 0.1u
CP119
AGS
NJM4558
IC105B
CP114
Q104
CML 1-5A,1-3C
CN2-26
26 /FNETD
CP76
CN2-17
A,1-3C
24 .01u
49
D C B A
3 2 1

TEL/LIU PWB (JAPAN)

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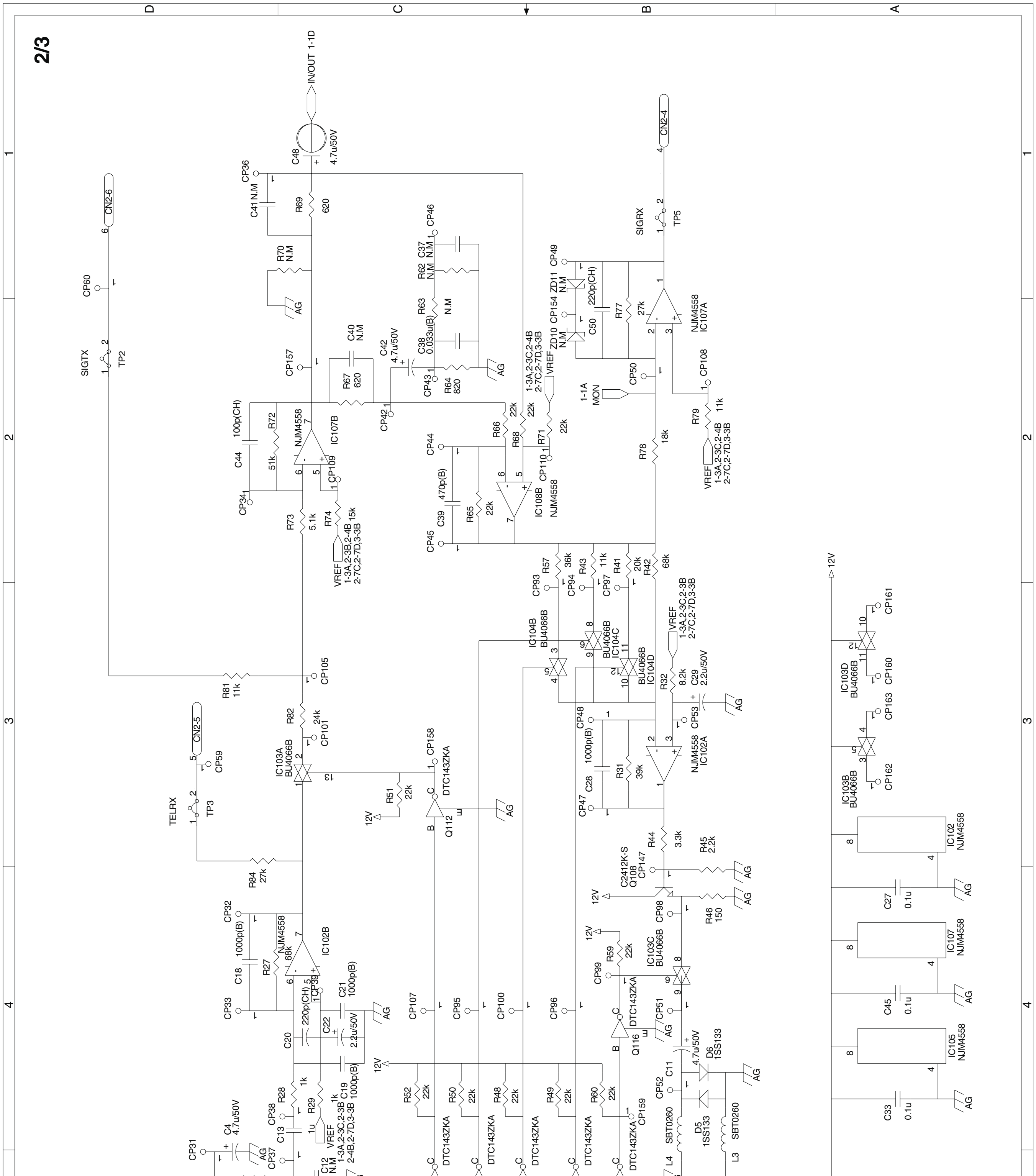

IN/OUT 1-1D
C48 4.7u/50V
CP36
C41 N.M
R69 620
R70 N.M
AG
CN2-6
CP60
SIGTX
TP2
CP46
R62 N.M
C37 N.M
R63 N.M
C38 0.033u(B)
CP43
R64 820
C40 N.M
C42 4.7u/50V
R67 620
CP157
CP42
C44 100p(CH)
R72 51k
NJM4558
IC107B
CP109
CP34
R73 5.1k
R74 15k
VREF 1-3A,2-3B,2-4B 2-7C,2-7D,3-3B
CP44
C39 470p(B)
R65 22k
CP45
R66 22k
R68 22k
IC108B NJM4558
CP110
R71 22k
VREF 1-3A,2-3C,2-4B 2-7C,2-7D,3-3B
CP49
ZD11 N.M
ZD10 N.M
CP154
C50 220p(CH)
R77 27k
CP50
1-1A MON
R78 18k
NJM4558 IC107A
SIGRX
TP5
CN2-4
CP108
R79 11k
R57 36k
R43 11k
R41 20k
R42 68k
CP93
CP94
CP97
IC104B BU4066B
IC104C BU4066B
IC104D BU4066B
VREF 1-3A,2-3C,2-3B 2-7C,2-7D,3-3B
R32 8.2k
C29 2.2u/50V
CP53
CP48
C28 1000p(B)
R31 39k
NJM4558 IC102A
CP47
R44 3.3k
R45 2.2k
C2412K-S Q108
CP147
12V
CP98
R46 150
R59 22k
IC103C BU4066B
CP99
DTC143ZKA
Q116
CP51
C11 4.7u/50V
D6 1SS133
CP52
CP159
SBT0260
D5 1SS133
L3 SBT0260
L4
IC103D BU4066B
CP161
CP160
CP163
CP162
IC103B BU4066B
IC102 NJM4558
IC107 NJM4558
IC105 NJM4558
IC103 BU4066B
IC104 BU4066B
C27 0.1u
C45 0.1u
C33 0.1u
C35 0.1u
C34 0.1u
R81 11k
CP105
R82 24k
CP101
IC103A BU4066B
CP158
DTC143ZKA
R51 22k
Q112
CN2-5
CP59
TELRX
TP3
R84 27k
CP32
C18 1000p(B)
R27 68k
NJM4558 IC102B
CP39
C21 1000p(B)
CP33
C20 220p(CH)
C22 2.2u/50V
C19 1000p(B)
R28 1k
R29 1k
CP38
C13 1u
VREF 1-3A,2-3C,2-3B 2-4B,2-7D,3-3B
C4 4.7u/50V
CP31
CP37
C12 N.M
R16 330
R15 1k
CP56
L5 SBT0260
C3 2200p(B)
VREF 1-3A,2-3C,2-3B 2-4B,2-7C,3-3B
CP107
CP95
CP100
CP96
R52 22k
R50 22k
R48 22k
R49 22k
R60 22k
Q111
Q113
Q106
Q105
Q115
CP40
CP41
CP70
CP71
CP73
CP72
CP69
CP79
CN1-1
CN1-4
CN2-20
CN2-21
CN2-23
CN2-22
CN2-19
CN1-2
CN1-3
A
B
C
D
1
2
3
4
5

TEL/LIU PWB (JAPAN)

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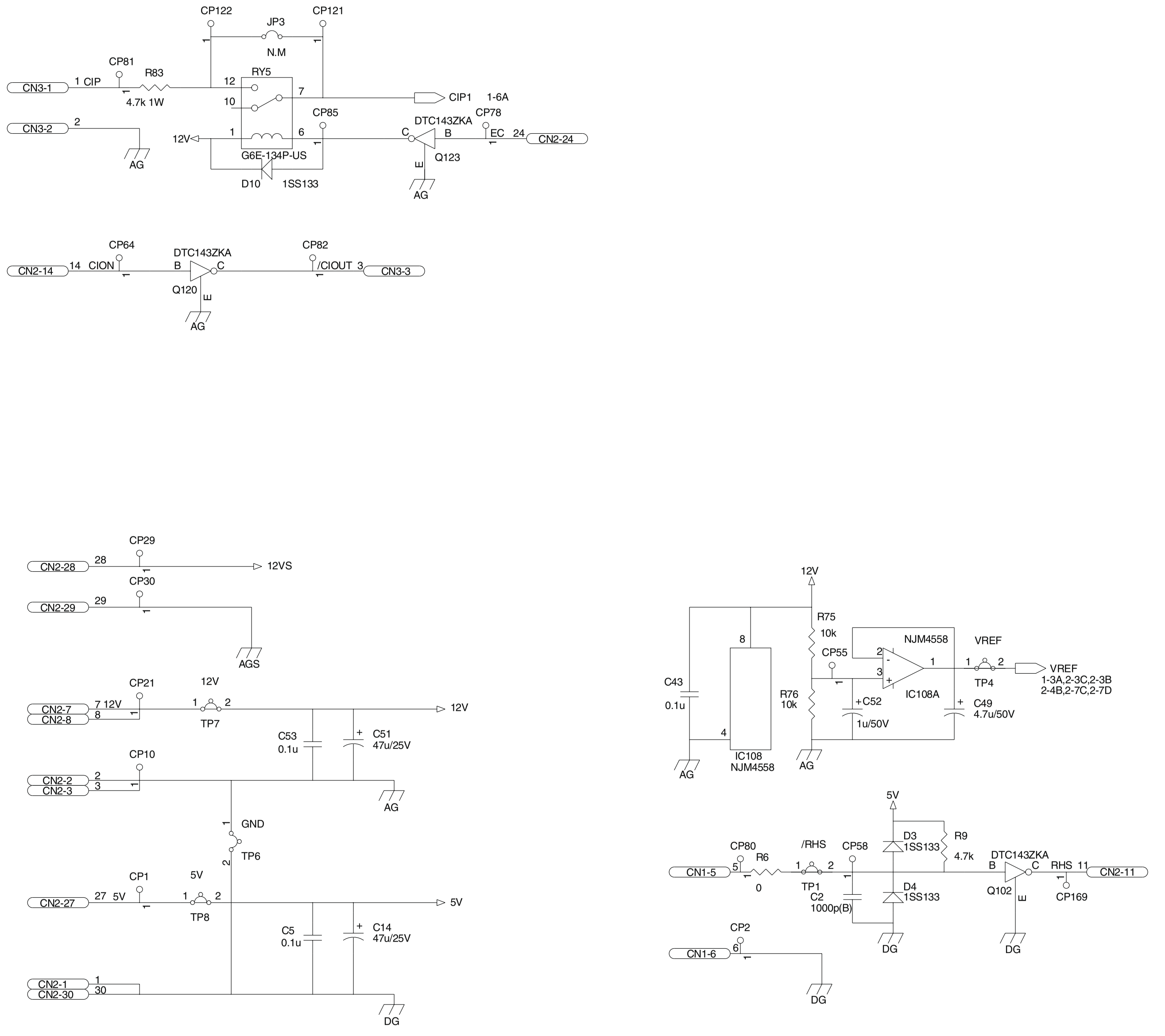

CN3-1
1 CIP
CP81
R83
4.7k 1W
CP122
JP3
N.M
CP121
RY5
12
10
7
1
6
G6E-134P-US
D10
1SS133
12V
CIP1 1-6A
CP85
CP78
DTC143ZKA
C
B
E
EC 24
CN2-24
Q123
AG
CN3-2
2
AG
CN2-14
14 CION
CP64
DTC143ZKA
B
C
E
Q120
AG
CP82
/CIOUT 3
CN3-3
CN2-28
28
CP29
12VS
CN2-29
29
CP30
AGS
CN2-7
CN2-8
7 12V
8
CP21
12V
TP7
1
2
12V
C53
0.1u
C51
47u/25V
CN2-2
CN2-3
2
3
CP10
AG
GND
TP6
CN2-27
27 5V
CP1
5V
TP8
5V
C5
0.1u
C14
47u/25V
CN2-1
CN2-30
1
30
DG
12V
R75
10k
CP55
R76
10k
C43
0.1u
8
4
IC108
NJM4558
AG
AG
NJM4558
IC108A
2
3
1
C52
1u/50V
C49
4.7u/50V
VREF
TP4
VREF
1-3A,2-3C,2-3B
2-4B,2-7C,2-7D
5V
CN1-5
5
CP80
R6
0
/RHS
TP1
C2
1000p(B)
CP58
D3
1SS133
D4
1SS133
R9
4.7k
DTC143ZKA
B
C
E
Q102
RHS 11
CP169
CN2-11
DG
DG
CN1-6
6
CP2
DG

Japan Only

MJ2	MJ-66J-RD315
1	BT1
2	LT1
3	TEL1
4	TEL2
5	LT2
6	BT2

CN3	S03B-XASK-1
1	CIP
2	AG
3	/CIOUT

MJ1	MJ-62J-RD315
1	L1
2	L2

Japan Only

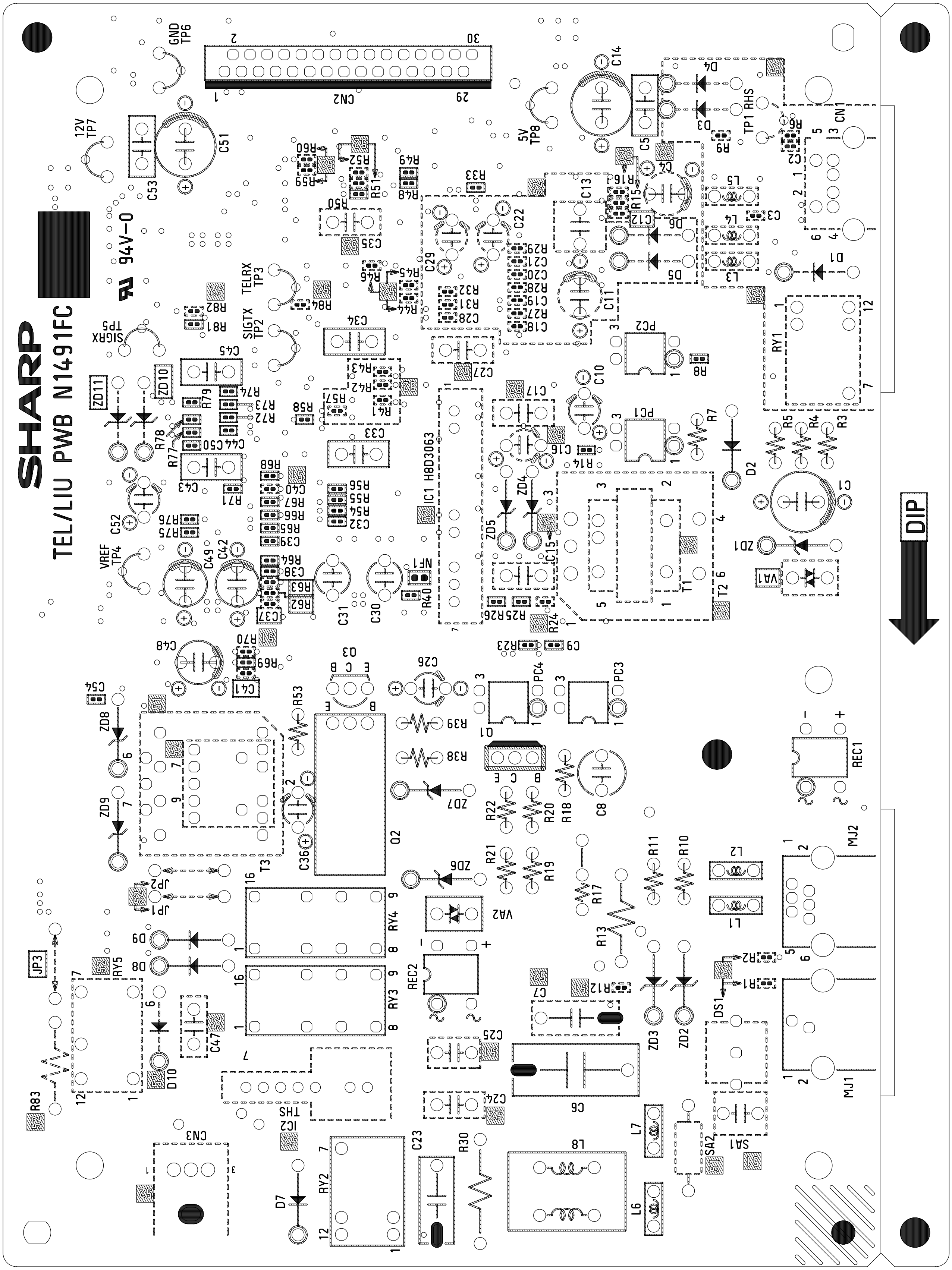
CN1	MD-S610-90
1	TX+
2	RX+
3	RX-
4	TX-
5	/RHS
6	DG

CN2	30FE-BT-VK-N		
DG	1	2	AG
AG	3	4	SIGRX
TELRX	5	6	SIGTX
12V	7	8	12V
/HS1	9	10	/HS2
RHS	11	12	/EXHS
/CI	13	14	CION
MR	15	16	S
CML	17	18	/DP
/RCVMUTE	19	20	/MICMUTE
/VRSEL1	21	22	/VRSEL2
/VRSEL3	23	24	EC
/CID	25	26	/FNETD
5V	27	28	12VS
AGS	29	30	DG

TEL LIU PWB (JAPAN)

PARTS LAYOUT / 部品配置図

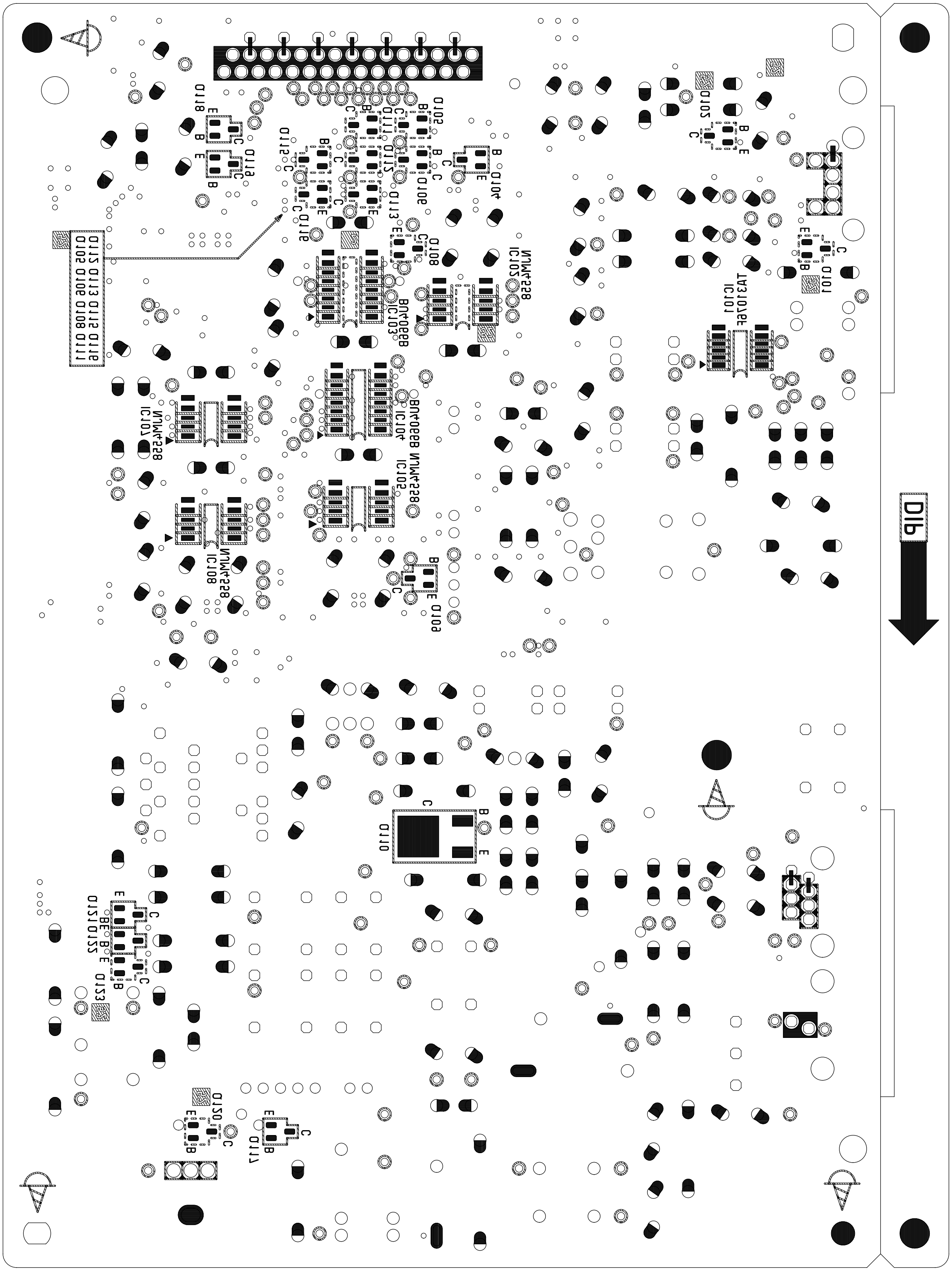
[PARTS SURFACE / 部品面]


GND TP6
2
30
1
CN2
29
12V TP7
C53
C51
5V TP8
C14
C5
D4
D3
TP1 RHS
R6
CN1
R9
C2
R60
R52
R59
R51
R50
R49
R48
R33
C13
R16
R15
C4
L5
C22
C35
C29
C12
D6
L4
C3
R29
C21
R28
C20
C19
R27
C18
R32
R31
C28
R45
R46
R44
D5
L3
D1
RY1
C1
PC2
R8
TELRX TP3
R84
R82
R81
SIGRX TP5
SIGTX TP2
C34
C45
C27
94V-0
SHARP
TEL/LIU PWB N1491FC
ZD11
ZD10
R79
R74
R73
R72
R58
R57
R43
R42
R41
C17
C10
PC1
R7
R5
R4
R3
R78
R77
C44
C50
C33
C16
R14
D2
C1
C43
R71
R68
C40
R56
R67
R55
R54
C32
IC1 H8D3063
ZD4
ZD5
T1
T2
C52
R76
R75
R66
R65
C39
C15
DIP
ZD1
VA1
VREF TP4
C49
C42
R64
C38
R63
R62
C37
C31
C30
NF1
R40
R25
R26
R24
R23
C9
C48
R70
R69
C41
Q3
E C B
C26
PC4
PC3
C54
ZD8
R53
R39
R38
Q1
REC1
ZD9
T3
C36
Q2
ZD7
R22
R20
R18
C8
R21
R19
R17
R11
R10
L2
MJ2
ZD6
JP2
JP1
RY4
VA2
R13
L1
JP3
D9
D8
RY5
RY3
REC2
C7
R12
ZD3
ZD2
R2
R1
DS1
C47
D10
C25
C6
THS
C24
MJ1
R83
CN3
IC2
C23
R30
L8
L7
SA2
SA1
D7
RY2
L6

TEL LIU PWB (JAPAN)

PARTS LAYOUT / 部品配置図

[SOLDER SURFACE / 半田面]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Q114
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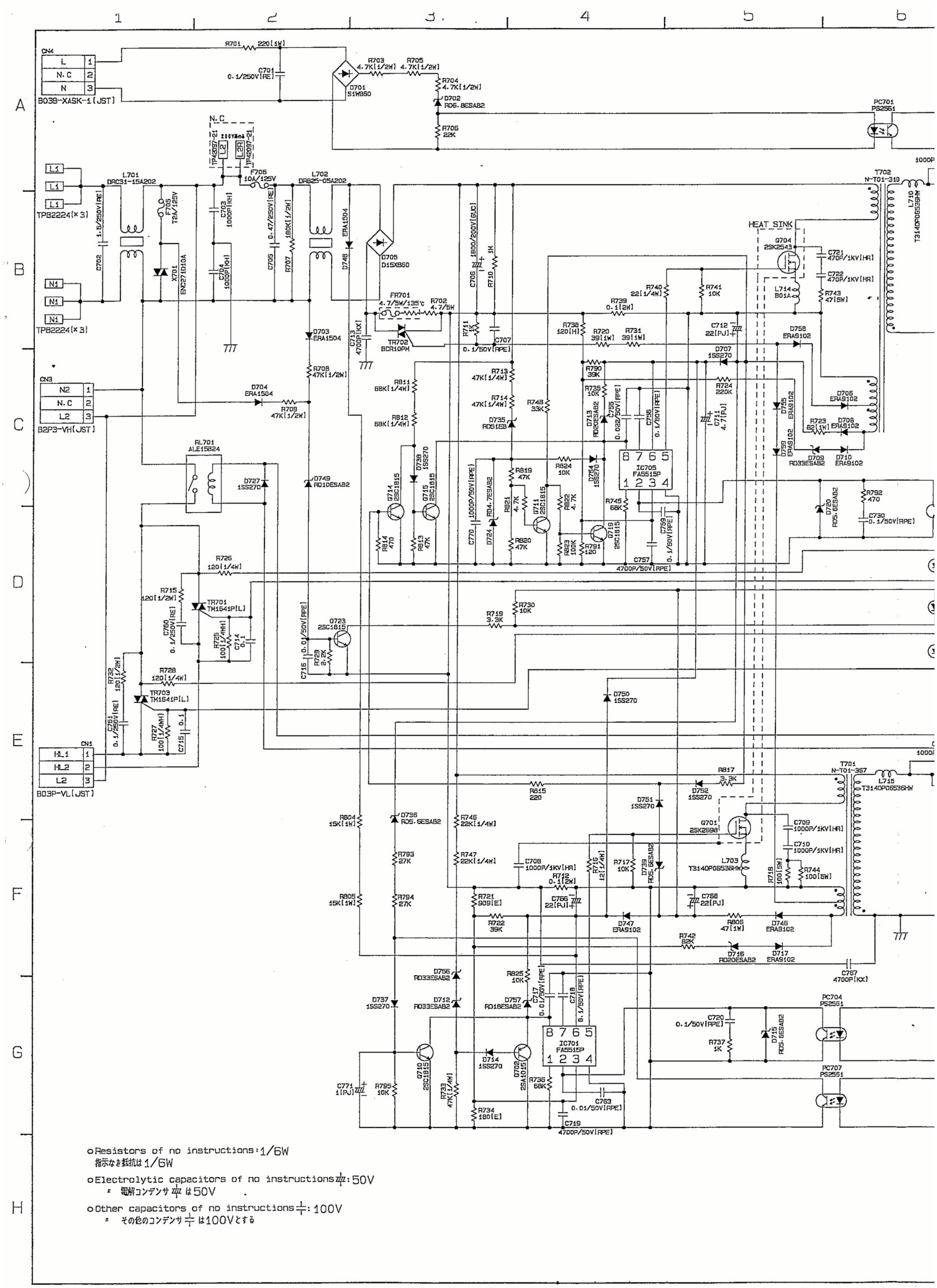
Q113
Q116
Q108
Q105 Q106 Q108 Q111
Q112 Q113 Q115 Q116
IC102 NJM4558
IC103 BU4066B
IC101 TA31072F
Q102
Q101
IC107 NJM4558
IC104 BU4066B
IC105 NJM4558
IC108 NJM4558
Q109
DIP
Q110
Q121 Q122
Q123
Q120
Q117
B
C
E

N. POWER SUPPLY / 電源回路

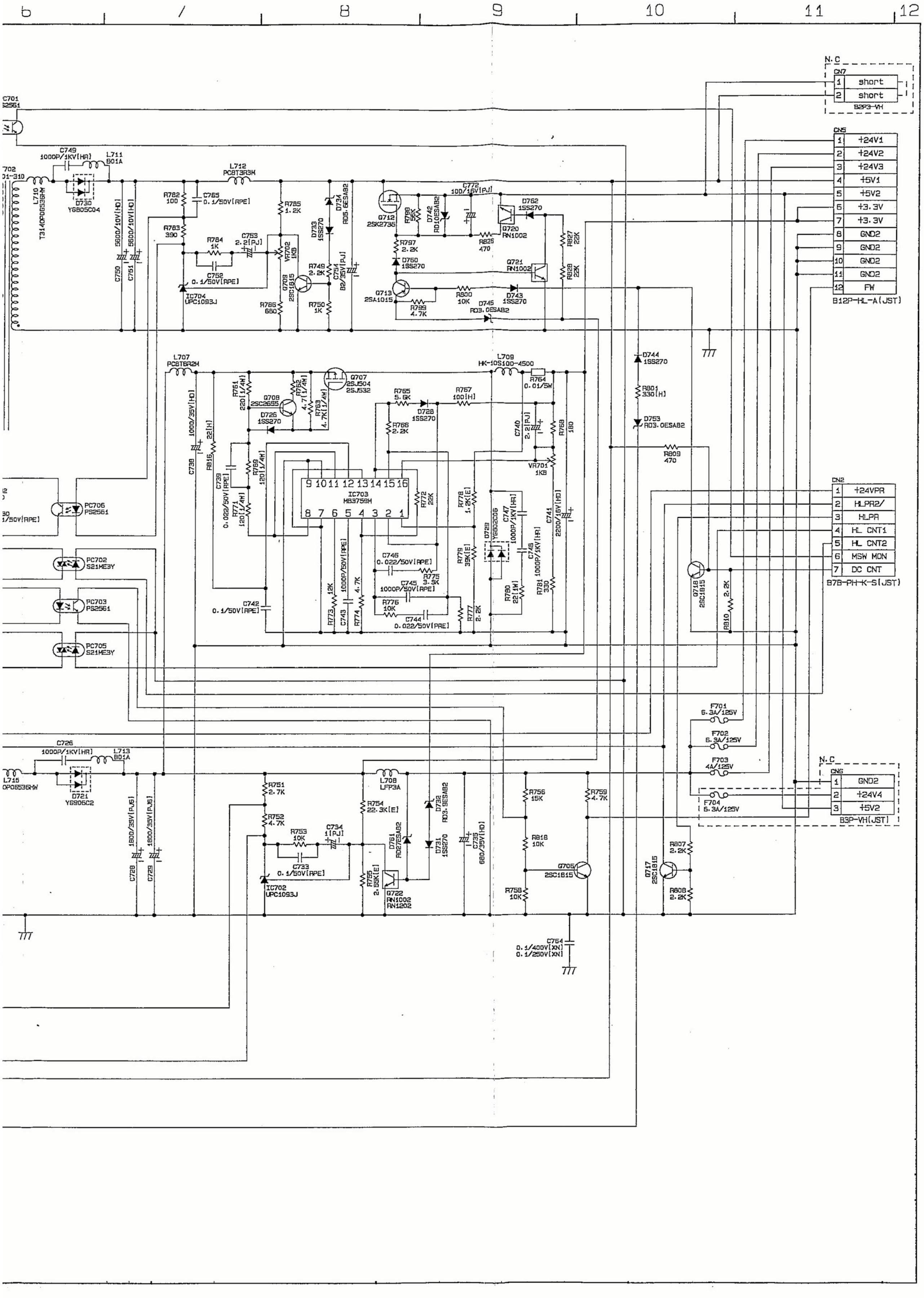
(1) AC POWER PWB (100V/127V)


1
2
3
4
5
6
A
B
C
D
E
F
G
H
CN4
L
N.C
N
B03B-XASK-1(JST)
R701 220(1W)
C701 0.1/250V(RE)
R703 4.7K(1/2W)
R705 4.7K(1/2W)
D701 S1WB60
R704 4.7K(1/2W)
D702 RD6.8ESAB2
R706 22K
PC701 PS2561
N.C
L2
L2S
200V
F706 10A/125V
TP42097-21
L1
TPB2224(×3)
L701 DRC31-15A202
F705 T2A/125V
C702 1.5/250V(RE)
X701 ENC271D10A
C703 1000P(KH)
C704 1000P(KH)
L702 DRB25-05A202
C705 0.47/250V(RE)
R707 180K(1/2W)
D748 ERA1504
D705 D15XB60
C706 1800/200V(GJC)
R710 1M
T702 N-T01-310
L710 T3140P06536HW
1000P
HEAT SINK
Q704 2SK2543
C721 470P/1KV(HR)
C722 470P/1KV(HR)
L714 B01A
R743 47(5W)
R740 22(1/4W)
R741 10K
N1
FR701 4.7/5W/135℃
R702 4.7/5W
R739 0.1(2W)
TR702 BCR10PM
C713 4700P(KX)
R711 1K
C707 0.1/50V(RPE)
R738 120(H)
R720 39(1W)
R731 39(1W)
C712 22(PJ)
D758 ERA9102
D707 1SS270
D703 ERA1504
R708 47K(1/2W)
R811 68K(1/4W)
R812 68K(1/4W)
R713 47K(1/4W)
R714 47K(1/4W)
D735 RD5.1EB
R748 33K
R790 39K
R735 10K
D713 RD20ESAB2
C755 0.022/50V(RPE)
C756 0.1/50V(RPE)
R724 220K
C711 4.7(PJ)
D755 ERA9102
D706 ERA9102
R723 82(1W)
D708 ERA9102
D759 ERA9102
D709 RD33ESAB2
D710 ERA9102
CN3
N2
N.C
L2
B2P3-VH(JST)
D704 ERA1504
R709 47K(1/2W)
RL701 ALE15824
D727 1SS270
D749 RD10ESAB2
D739 1SS270
Q714 2SC1815
Q715 2SC1815
R814 470
R813 47K
C770 1000P/50V(RPE)
D724 RD4.7ESAB2
R819 47K
R821 4.7K
Q711 2SC1815
R820 47K
R824 10K
R822 4.7K
D754 1SS270
IC705 FA5515P
8 7 6 5
1 2 3 4
R745 68K
R823 100K
R791 120
Q719 2SC1815
C759 0.1/50V(RPE)
C757 4700P/50V(RPE)
D720 RD5.6ESAB2
R792 470
C730 0.1/50V(RPE)
R726 120(1/4W)
R715 120(1/2W)
TR701 TM1641P(L)
C760 0.1/250V(RE)
R725 100(1/4W)
C714 0.1
Q723 2SC1815
C716 0.01/50V(RPE)
R729 2.2K
R719 3.3K
R730 10K
R732 120(1/2W)
R728 120(1/4W)
TR703 TM1641P(L)
C761 0.1/250V(RE)
R727 100(1/4W)
C715 0.1
D750 1SS270
CN1
HL1
HL2
L2
B03P-VL(JST)
R817 3.3K
T701 N-T01-367
L715 T3140P06536HW
R815 220
D752 1SS270
D751 1SS270
Q701 2SK2698
C709 1000P/1KV(HR)
C710 1000P/1KV(HR)
R804 15K(1W)
D736 RD5.6ESAB2
R746 22K(1/4W)
R793 27K
R747 22K(1/4W)
C708 1000P/1KV(HR)
R716 12(1/4W)
R717 10K
D739 RD5.6ESAB2
L703 T3140P06536HW
R718 100(5W)
R744 100(5W)
R805 15K(1W)
R794 27K
R721 909(E)
R742 0.1(2W)
C766 22(PJ)
C768 22(PJ)
R722 39K
D747 ERA9102
R806 47(1W)
D746 ERA9102
R742 82K
D716 RD20ESAB2
D717 ERA9102
C767 4700P(KX)
D756 RD33ESAB2
D712 RD33ESAB2
D737 1SS270
R825 10K
D757 RD16ESAB2
C717 0.01/50V(RPE)
C718 0.1/50V(RPE)
IC701 FA5515P
8 7 6 5
1 2 3 4
C720 0.1/50V(RPE)
R737 1K
D715 RD5.6ESAB2
PC704 PS2561
Q710 2SC1815
D714 1SS270
Q702 2SA1015
C771 1(PJ)
R795 10K
R733 47K(1/4W)
R736 68K
C763 0.01/50V(RPE)
R734 180(E)
C719 4700P/50V(RPE)
PC707 PS2561

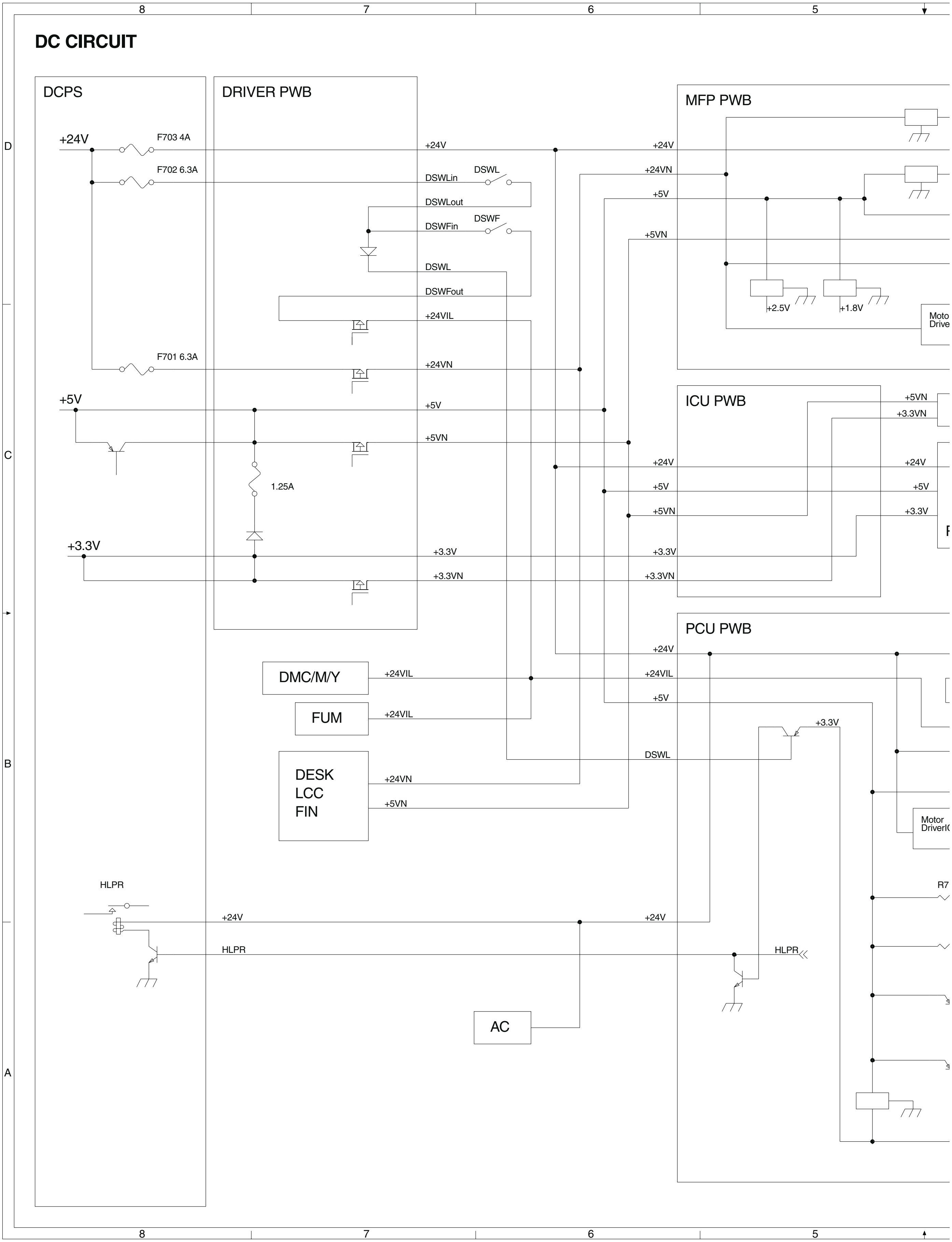
o Resistors of no instructions: 1/6W
〃 指示なき抵抗は 1/6W

o Electrolytic capacitors of no instructions ⊥: 50V
〃 電解コンデンサ ⊥ は50V

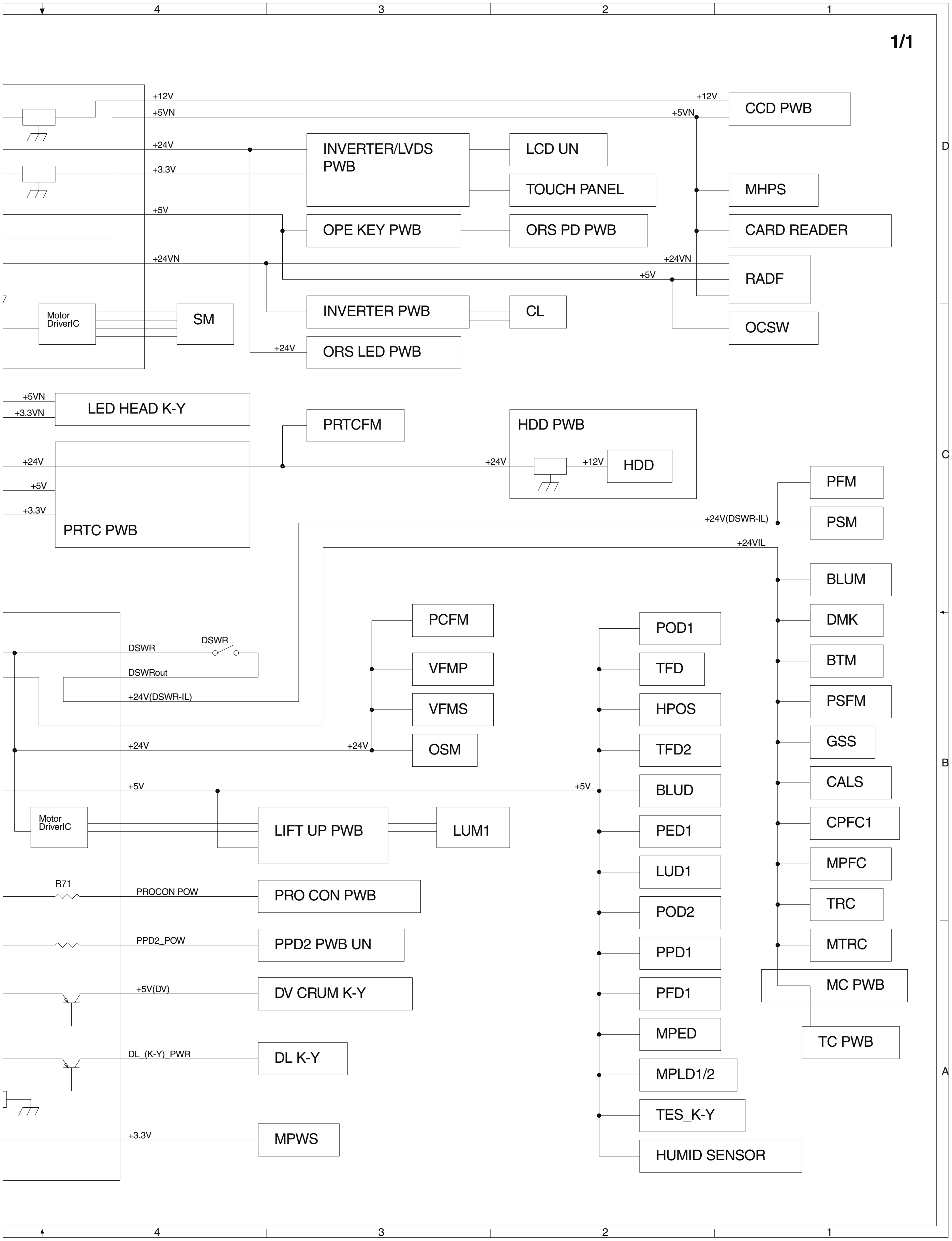
o Other capacitors of no instructions ⊥: 100V
〃 その他のコンデンサ ⊥ は100Vとする

6
7
8
9
10
11
12
N.C
CN7
1 short
2 short
B2P3-VH
CN5
1 +24V1
2 +24V2
3 +24V3
4 +5V1
5 +5V2
6 +3.3V
7 +3.3V
8 GND2
9 GND2
10 GND2
11 GND2
12 FW
B12P-HL-A(JST)
C701
S2561
C749
1000P/1KV(HR)
L711
B01A
702
01-310
L710
T3140P0653GHM
D730
YG805C04
L712
PC8T3R3K
R782
100
C765
0.1/50V(RPE)
R785
1.2K
D734
RD5.6ESAB2
C772
100/16V(PJ)
D762
1SS270
R783
390
R784
1K
C753
2.2(PJ)
VR702
1KB
D733
1SS270
Q712
2SK2735
R798
56K
D742
RD10ESAB2
Q720
RN1002
R825
470
R827
22K
C750
5600/10V(HD)
C751
5600/10V(HD)
C752
0.1/50V(RPE)
IC704
UPC1093J
R786
680
Q709
2SC1815
R749
2.2K
C754
82/35V(PJ)
R750
1K
R797
2.2K
D760
1SS270
Q713
2SA1015
R799
4.7K
R800
10K
D745
RD3.0ESAB2
D743
1SS270
Q721
RN1002
R828
22K
L707
PC8T8R2K
C738
1000/35V(HD)
R816
22(H)
R761
220(1/4W)
Q708
2SC2655
R762
4.7(1/4W)
R763
4.7K(1/4W)
D726
1SS270
Q707
2SJ504
2SJ532
L709
HK-10S100-4500
R764
0.01/5W
R765
5.6K
D728
1SS270
R757
100(H)
R766
2.2K
C740
2.2(PJ)
R768
180
VR701
1KB
D744
1SS270
R801
330(H)
D753
RD3.0ESAB2
R809
470
C739
0.022/50V(RPE)
R769
120(1/4W)
R771
120(1/4W)
9 10 11 12 13 14 15 16
IC703
MB3759H
8 7 6 5 4 3 2 1
R772
22K
R778
1.2K(E)
D729
YG802C06
C747
1000P/1KV(HR)
C741
2200/16V(HD)
C746
0.022/50V(RPE)
C745
1000P/50V(RPE)
R775
3.3K
R779
39K(E)
C748
1000P/1KV(HR)
R781
330
R780
22(1W)
R776
10K
C744
0.022/50V(PRE)
R773
12K
C743
1000P/50V(RPE)
R774
4.7K
R777
2.2K
C742
0.1/50V(RPE)
PC706
PS2561
60
/50V(RPE)
PC702
S21ME3Y
PC703
PS2561
PC705
S21ME3Y
CN2
1 +24VPR
2 HLPR2/
3 HLPR
4 HL CNT1
5 HL CNT2
6 MSW MON
7 DC CNT
B7B-PH-K-S(JST)
Q718
2SC1815
R810
2.2K
F701
6.3A/125V
F702
6.3A/125V
F703
4A/125V
F704
6.3A/125V
N.C
CN6
1 GND2
2 +24V4
3 +5V2
B3P-VH(JST)
C726
1000P/1KV(HR)
L713
B01A
L715
0P0653GHW
D721
YG906C2
C728
1800/35V(PJS)
C729
1800/35V(PJS)
R751
2.7K
R752
4.7K
R753
10K
C734
1(PJ)
C733
0.1/50V(RPE)
IC702
UPC1093J
L708
LFP3A
R754
22.3K(E)
D761
RD27ESAB2
R755
2.55K(E)
Q722
RN1002
RN1202
D732
RD3.9ESAB2
D731
1SS270
C735
680/35V(HD)
R756
15K
R818
10K
R758
10K
Q705
2SC1815
R759
4.7K
Q717
2SC1815
R807
2.2K
R808
2.2K
C764
0.1/400V(XN)
0.1/250V(XN)

(2) DC CIRCUIT



8
7
6
5
D
C
B
A
DC CIRCUIT
DCPS
DRIVER PWB
MFP PWB
+24V
F703 4A
F702 6.3A
F701 6.3A
+24V
+24VN
DSWLin
DSWL
DSWLout
DSWFin
DSWF
DSWL
DSWFout
+24VIL
+24VN
+5V
+5V
+5VN
1.25A
+3.3V
+3.3V
+3.3VN
+5VN
+2.5V
+1.8V
Moto
Drive
ICU PWB
+5VN
+3.3VN
+24V
+5V
+3.3V
+3.3VN
PCU PWB
+24VIL
DMC/M/Y
FUM
DESK
LCC
FIN
DSWL
Motor
DriverI
HLPR
R7
AC


4
3
2
1
1/1
D
C
B
A
+12V
+5VN
+24V
+3.3V
+5V
+24VN
+12V
+5VN
CCD PWB
INVERTER/LVDS PWB
LCD UN
TOUCH PANEL
MHPS
OPE KEY PWB
ORS PD PWB
CARD READER
+24VN
+5V
RADF
Motor DriverIC
SM
INVERTER PWB
CL
OCSW
+24V
ORS LED PWB
+5VN
+3.3VN
LED HEAD K-Y
PRTCFM
HDD PWB
+24V
+5V
+3.3V
+24V
+12V
HDD
PRTC PWB
PFM
+24V(DSWR-IL)
PSM
+24VIL
BLUM
DMK
PCFM
POD1
DSWR
DSWR
DSWRout
VFMP
TFD
BTM
+24V(DSWR-IL)
VFMS
HPOS
PSFM
+24V
+24V
OSM
TFD2
GSS
+5V
+5V
BLUD
CALS
Motor DriverIC
LIFT UP PWB
LUM1
PED1
CPFC1
LUD1
MPFC
R71
PROCON POW
PRO CON PWB
POD2
TRC
PPD2_POW
PPD2 PWB UN
PPD1
MTRC
+5V(DV)
DV CRUM K-Y
PFD1
MC PWB
TC PWB
MPED
DL_(K-Y)_PWR
DL K-Y
MPLD1/2
TES_K-Y
+3.3V
MPWS
HUMID SENSOR

CAUTION FOR BATTERY REPLACEMENT

(Danish) ADVARSEL !

Lithiumbatteri – Eksplosionsfare ved fejlagtig håndtering.
Udskiftning må kun ske med batteri
af samme fabrikat og type.
Levér det brugte batteri tilbage til leverandoren.

(English) Caution !

Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type
recommended by the manufacturer.

"BATTERY DISPOSAL"
CONTAINS MANGANESE DIOXIDE LITHIUM BATTERY
MUST BE DISPOSED OF PROPERLY.
REMOVE THE BATTERY FROM THE PRODUCT AND
CONTACT FEDERAL OR STATE ENVIRONMENTAL
AGENCIES FOR INFORMATION ON RECYCLING
AND DISPOSAL OPTIONS.

"BATTERY DISPOSAL"
CONTAINS LITHIUM-ION BATTERY.
MUST BE DISPOSED OF PROPERLY.
REMOVE THE BATTERY FROM THE PRODUCT AND
CONTACT FEDERAL OR STATE ENVIRONMENTAL
AGENCIES FOR INFORMATION ON RECYCLING
AND DISPOSAL OPTIONS.

(Finnish) VAROITUS

Paristo voi räjähtää, jos se on virheellisesti asennettu.
Vaihda paristo ainoastaan laitevalmistajan suosittelemaan
tyyppiin. Hävitä käytetty paristo valmistajan ohjeiden
mukaisesti.

(French) ATTENTION

Il y a danger d'explosion s' il y a remplacement incorrect
de la batterie. Remplacer uniquement avec une batterie du
même type ou d'un type équivalent recommandé par
le constructeur.
Mettre au rebut les batteries usagées conformément aux
instructions du fabricant.

(Swedish) VARNING

Explosionsfara vid felaktigt batteribyte.
Använd samma batterityp eller en ekvivalent
typ som rekommenderas av apparattillverkaren.
Kassera använt batteri enligt fabrikantens
instruktion.

(German) Achtung

Explosionsgefahr bei Verwendung inkorrekter Batterien.
Als Ersatzbatterien dürfen nur Batterien vom gleichen Typ oder
vom Hersteller empfohlene Batterien verwendet werden.
Entsorgung der gebrauchten Batterien nur nach den vom
Hersteller angegebenen Anweisungen.

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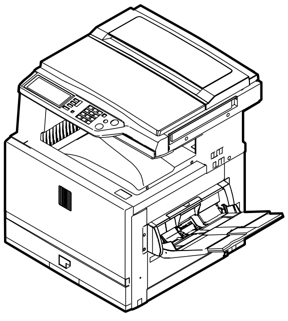
Digital Document System Group
Products Quality Assurance Department
Yamatokoriyama, Nara 639-1186, Japan
2002 November Printed

SHARP

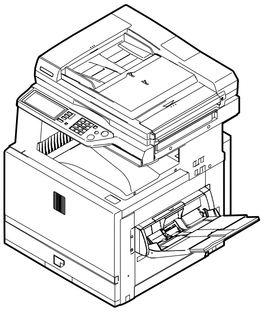
PARTS GUIDE

CODE:00ZARC260/P2/

デジタルフルカラー複合機
Digital Full Color Copier / Printer
Digital Full Color Multifunctional System



AR-C260
AR-C260M
AR-C260S



AR-C260F
AR-C260FP

MODEL
AR-C260 [EXCEPT JAPAN]
AR-C260M
AR-C260FP [JAPAN ONLY]
AR-C260S [JAPAN ONLY]
AR-C260F [JAPAN ONLY]

このパーツガイドに掲載されている表示価格ランクは消費税抜きです。

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2 外装 2 (Exteriors 2)
3 原稿検知ﾕﾆｯﾄ (Document detect unit)
4 操作部 (Operation panel section)
5 ｵﾘｼﾞﾅﾙｶﾊﾞｰﾕﾆｯﾄ (Original cover unit) [AR-C260S/AR-C260, AR-C260M(Except U.S.A,Europe,Australia,New Zealand)]
6 ｽｷｬﾅｰﾕﾆｯﾄ 1 (Scanner unit 1)
7 ｽｷｬﾅｰﾕﾆｯﾄ 2 (Scanner unit 2)
8 ﾗﾝﾌﾟﾕﾆｯﾄ (Lamp unit)
9 ｽｷｬﾅｰ連結ﾕﾆｯﾄ (Scanner joint unit)
10 ｶｾｯﾄﾕﾆｯﾄ (Casette unit)
11 給紙ﾕﾆｯﾄ (Paper feed unit)
12 給紙駆動ﾕﾆｯﾄ (Paper feeding drive unit)
13 ﾏﾙﾁ手差しﾕﾆｯﾄ 1 (Multi manual paper feeding unit 1)
14 ﾏﾙﾁ手差しﾕﾆｯﾄ 2 (Multi manual paper feeding unit 2)
15 ﾏﾙﾁ手差しﾕﾆｯﾄ 3 (Multi manual paper feeding unit 3)
16 縦搬送ｶﾞｲﾄﾞﾕﾆｯﾄ (Vertical transport guide unit)
17 ｶｾｯﾄｶﾞｲﾄﾞ R・縦搬送下ﾕﾆｯﾄ (Cassette guide R / Vertical transport lower unit)
18 PS ﾕﾆｯﾄ (PS unit)
19 転写ﾍﾞﾙﾄﾕﾆｯﾄ 1 (Transfer belt unit 1)
20 転写ﾍﾞﾙﾄﾕﾆｯﾄ 2 (Transfer belt unit 2)
21 転写ﾘﾌﾄｱｯﾌﾟﾕﾆｯﾄ (Transfer lift-up unit)
22 ﾌﾟﾛｾｽﾕﾆｯﾄ (Process unit)
23 ﾄﾞﾗﾑ駆動ﾕﾆｯﾄ (Drum drive unit)
24 定着ﾕﾆｯﾄ 1 (Fusing unit 1)
25 定着ﾕﾆｯﾄ 2 (Fusing unit 2)
26 定着駆動ﾕﾆｯﾄ (Fusing drive unit)
27 左ﾄﾞｱ (Left door)
28 FD 排紙ﾕﾆｯﾄ (FD delivery unit)
29 ﾌﾚｰﾑ 1 (Frame 1)
30 ﾌﾚｰﾑ 2 (Frame 2)
31 ﾌﾚｰﾑ 3 (Frame 3)
32 転写挿入ｶﾞｲﾄﾞ (Transfer insert guide)
33 ﾀﾞｸﾄﾕﾆｯﾄ (Duct unit)
34 ｺﾝﾄﾛｰﾗ BOX (Control box)
35 配線部 (Wiring section)
36 梱包材＆付属品 (Packing Material & Accessories)
37 FAX BOX unit [AR-C260F/C260FP]
38 ﾌﾟﾘﾝﾀｺﾝﾄﾛｰﾗ部 (Printer controler section) [AR-C260M/C260FP]
39 RADF 外装部 (RADF Exteriors) [AR-C260F/C260FP]
40 RADF 給紙部 1 (RADF Paper feedig section 1) [AR-C260F/C260FP]
41 RADF 給紙部 2 (RADF Paper feedig section 2) [AR-C260F/C260FP]
42 RADF 給紙駆動部 (RADF Paper feedig drive section) [AR-C260F/C260FP]
43 RADF 排紙部 1 (RADF Delivery section 1) [AR-C260F/C260FP]
44 RADF 排紙部 2 (RADF Delivery section 2) [AR-C260F/C260FP]
45 RADF 搬送部 (RADF Transport section) [AR-C260F/C260FP]
46 RADF 搬送駆動部 (RADF Transport drive section) [AR-C260F/C260FP]
47 RADF 台板ﾕﾆｯﾄ (RADF Base plate unit) [AR-C260F/C260FP]
48 RADF 配線部 (RADF Wiring section) [AR-C260F/C260FP]
49 ﾓﾃﾞﾑｺﾝﾄﾛｰﾙ 基板 (Modem control PWB) [AR-C260F/AR-C260FP]
50 TEL/LIU 基板 (TEL/LIU PWB) [AR-C260F/AR-C260FP]
51 PCU 基板 (PCU PWB)
52 MFPC2 基板 (MFPC2 PWB)
53 ICU 基板 (ICU PWB)
54 操作ｷｰ基板 (OPE KEY PWB)
55 ﾄﾞﾗｲﾊﾞｰ基板 (DRIVER PWB)
56 LVDS/INV 基板 (LVDS/INV PWB)
57 FAX 電源基板ﾕﾆｯﾄ (FAX AC power supply unit) [AR-C260F/C260FP]
58 PRTC 基板 (PRTC PWB) [AR-C260M/AR-C260FP]
■ 索引 (Index)

本書はサービス活動用に作成した資料です。
一部内容が製品の改良・改善等により予告
なしに変わることがあります。

SHARP CORPORATION

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The contents are subject to change without notice.

補修部品のランク付

市場における補修部品の在庫管理が、適正に運営出来る手助けとなることを、目的とします。

- Aランク ：メンテナンスパーツ、メンテナンスパーツには入っていないがメンテナンスパーツに近い消耗パーツ。
- Bランク ：性能・機能パーツ（センサー、クラッチ等の電気パーツ）、消耗パーツ。
- Eランク ：基板含むユニットパーツ。
- Dランク ：整備パーツ（外装、パッキング、同梱パーツ）。
- Cランク ：上記ランク以外のパーツ（基板の子部品を除いたもの）。

DEFINITION

- Rank A : Maintenance parts, and consumable parts which are not included in but closely related to maintenance parts
- Rank B : Performance/function parts (sensors, clutches, and other electrical parts), consumable parts
- Rank E : Unit parts including PWB
- Rank D : Preparation parts (External fitting, packing, parts packed together)
- Rank C : Parts other than the above (excluding sub components of PWB)

安全性・信頼性確保のため部品は、必ず正規のものをご使用下さい。
⚠ 印の商品は、安全上重要な部品です。交換をする時は、安全及び性能維持のため必ず指定の部品をご使用下さい。

Because parts marked with "⚠" is indispensable for the machine safety maintenance and operation, it must be replaced with the parts specific to the product specification.

○ 当モデルのサービス資料には、この資料以外にサービスマニュアル（回路図含む）があります。合わせてご利用下さい。
○ Other than this Parts Guide, please refer to documents Service Manual(including Circuit Diagram)of this model.
○ Please use the 13 digit code described in the right hand corner of front cover of the document, when you place an order.
○ For U.S. only-Use order codes provided in advertising literature. Do not order from parts department.

∗ These parts are supplied by SMF

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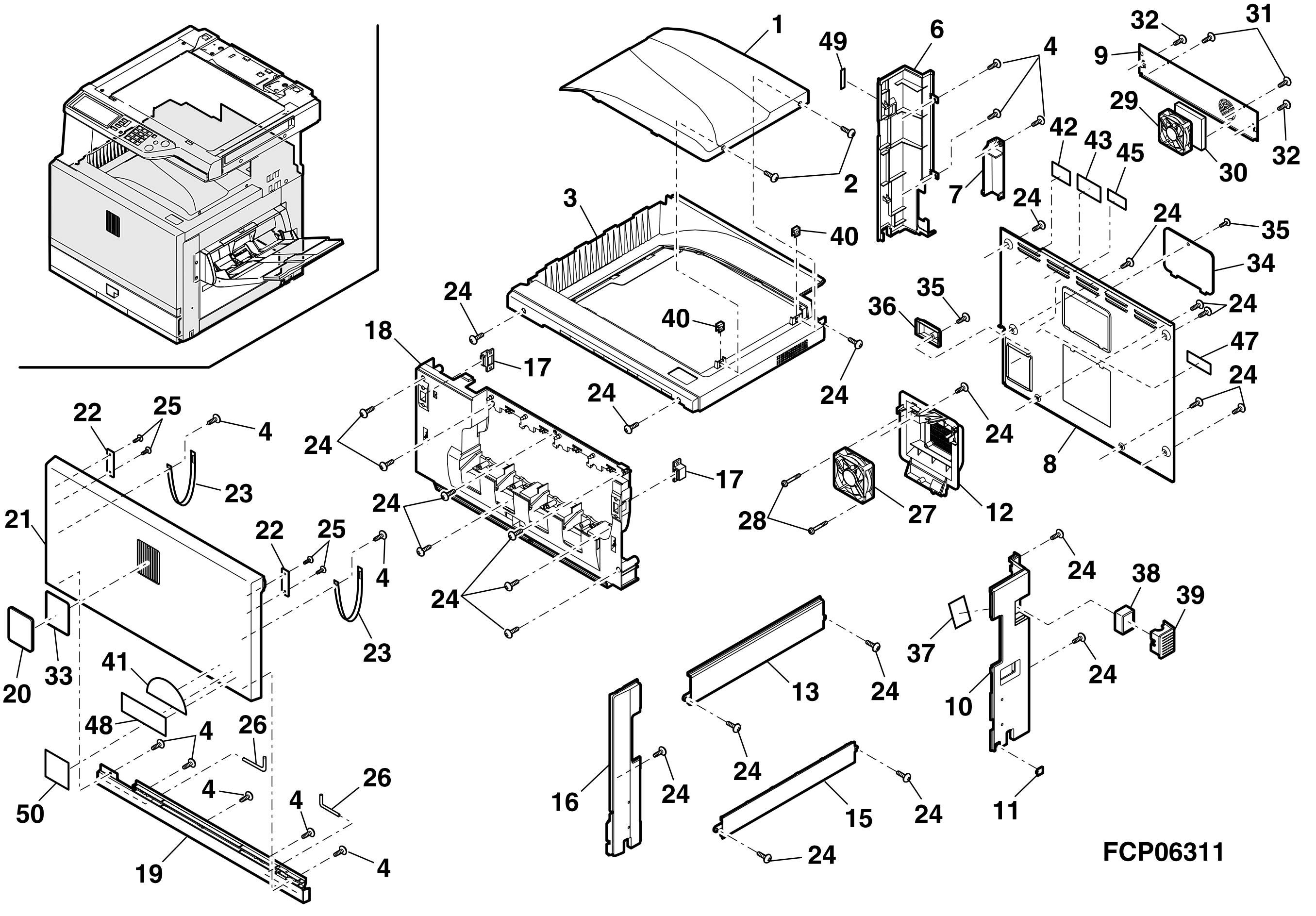
1 外装 1(Exteriors 1)

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION
		Ex.	Ja.			
1	GCAB-1018FCZ5	BF	FG	N	D	Delivery tray cabinet right (100V Series) 排紙ﾄﾚｲｷｬﾋﾞ右
	GCAB-1018FCZZ	AY	FQ	N	D	Delivery tray cabinet right (200V Series) 排紙ﾄﾚｲｷｬﾋﾞ右
2	XJBSE40P12000	AA	DD	N	C	Screw(4×12) ﾋﾞｽ
3	GCAB-0988FCZ5	BC	GJ	N	D	Delivery tray cabinet (100V Series) 排紙ﾄﾚｲｷｬﾋﾞ
	GCAB-0988FCZZ	BE	GN	N	D	Delivery tray cabinet (200V Series) 排紙ﾄﾚｲｷｬﾋﾞ
4	XEBSE40P08000	AA	DD		C	Screw(4×8) ﾋﾞｽ
6	GCAB-0987FCZ5	AV	FG	N	D	Left cabinet rear (100V Series) 左ｷｬﾋﾞ後
	GCAB-0987FCZZ	AU	EZ	N	D	Left cabinet rear (200V Series) 左ｷｬﾋﾞ後
7	PFTA-0141FCZ5	AK	DX	N	D	Left cabinet rear cover (100V Series) 左ｷｬﾋﾞ後蓋
	PFTA-0141FCZZ	AH	DX	N	D	Left cabinet rear cover (200V Series) 左ｷｬﾋﾞ後蓋
8	GCAB-0993FCZZ	BA	FX	N	D	Rear cabinet 後ｷｬﾋﾞ
9	LPLTM6092FCZ1	AM	EG	N	C	CONT back fixing plate (AR-C260/C260S/C260F) CONT 背面ﾌﾟﾚｰﾄ
10	GCAB-0992FCZ5	AT	EZ	N	D	Right cabinet rear (100V Series) 右ｷｬﾋﾞ後
	GCAB-0992FCZZ	AV	FG	N	D	Right cabinet rear (200V Series) 右ｷｬﾋﾞ後
11	PFTA-0142FCZZ	AE	DS	N	D	Right cabinet rear cover 右ｷｬﾋﾞ後蓋
12	PCŌVP1703FCZ5	AP	EQ	N	C	DC power supply CFM fixing cover (100V Series) DC 電源 CFM 取付けｶﾊﾞｰ
	PCŌVP1703FCZZ	AP	EQ	N	C	DC power supply CFM fixing cover (200V Series) DC 電源 CFM 取付けｶﾊﾞｰ
13	GCAB-0991FCZ5	AS	EQ	N	D	Right cabinet upper (100V Series) 右ｷｬﾋﾞ上
	GCAB-0991FCZZ	AR	EQ	N	D	Right cabinet upper (200V Series) 右ｷｬﾋﾞ上
15	GCAB-0990FCZ5	AM	EG	N	D	Right cabinet lower (100V Series) 右ｷｬﾋﾞ下
	GCAB-0990FCZZ	AP	EQ	N	D	Right cabinet lower (200V Series) 右ｷｬﾋﾞ下
16	GCAB-0989FCZ5	AT	EZ	N	D	Right cabinet front (100V Series) 右ｷｬﾋﾞ前
	GCAB-0989FCZZ	AR	EQ	N	D	Right cabinet front (200V Series) 右ｷｬﾋﾞ前
17	PMAGT0015FCZZ	AD	DJ		C	Magnet catch(10P) MG ｷｬｯﾁ
18	GCAB-0980FCZ5	BA	FX	N	D	Front frame cover 前ﾌﾚｰﾑｶﾊﾞｰ
19	GCAB-0985FCZ5	AP	EQ	N	D	Front cabinet lower (100V Series) 前ｷｬﾋﾞ下
	GCAB-0985FCZZ	AQ	EQ	N	D	Front cabinet lower (200V Series) 前ｷｬﾋﾞ下
20	CBDGD0043FC04	AR	EQ	N	C	Front cabinet badge [AR-C260S] 前ｷｬﾋﾞﾊﾞｯｼﾞ
	CBDGD0043FC05	AQ	EQ	N	C	Front cabinet badge [AR-C260F] 前ｷｬﾋﾞﾊﾞｯｼﾞ
	CBDGD0043FC03	AQ	EQ	N	C	Front cabinet badge [AR-C260FP] 前ｷｬﾋﾞﾊﾞｯｼﾞ
	CBDGD0043FC02	AP	EQ	N	C	Front cabinet badge [AR-C260M] 前ｷｬﾋﾞﾊﾞｯｼﾞ
	CBDGD0043FC01	AQ	EQ	N	C	Front cabinet badge [AR-C260] 前ｷｬﾋﾞﾊﾞｯｼﾞ
21	GCAB-0984FCZ5	BM	HR	N	D	Front cabinet (100V Series) 前ｷｬﾋﾞ
	GCAB-0984FCZZ	BA	FX	N	D	Front cabinet (200V Series) 前ｷｬﾋﾞ
22	LPLTM5027FCZZ	AC	DJ		C	Magnet catch plate S MG ｷｬｯﾁﾌﾟﾚｰﾄ S
23	LBNDZ0069FCZZ	AD	DJ		C	Band ﾊﾞﾝﾄﾞ
24	XHBSE40P08000	AA	DD		C	Screw(4×8) ﾋﾞｽ
25	XEBSE30P08000	AA	DD		C	Screw(3×8) ﾋﾞｽ
26	LPiN-0277FCZZ	AB	DJ		C	Slide pin ｽﾗｲﾄﾞﾋﾟﾝ
27	NFANP0070FCZZ	AZ	FX	N	B	PS cooling fan 電源冷却ﾌｧﾝ
28	XEBSD40P30000	AA	DD		C	Screw(4×30) ﾋﾞｽ
29	NFANP0071FCZZ	AZ	FX	N	B	Fan (AR-C260/C260S/C260F) ﾌｧﾝ
30	LHLDZ1547FCZZ	AD	DJ	N	C	Fan holder (AR-C260/C260S/C260F) ﾌｧﾝﾎﾙﾀﾞｰ
31	XHBSE30P06000	AA	DD		C	Screw(3×6) (AR-C260/C260S/C260F) ﾋﾞｽ
32	LX-BZ0901FCZZ	AC	DD		C	Screw (AR-C260/C260S/C260F) ﾋﾞｽ
33	TLABZ4742FCZZ	AL	EB	N	C	Color mark label ｶﾗｰﾏｰｸﾗﾍﾞﾙ

1 外装 1(Exteriors 1)

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION
		Ex.	Ja.			
34	PCŌVP1618FCZ1	AH	DX	N	D	ROM cover ROM ｶﾊﾞｰ
35	XHBSE30P08000	AA	DD		C	Screw(3×8) ﾋﾞｽ
36	PCŌVP1623FCZ1	AH	DX	N	D	FAX connector cover [Except AR-C260F/C260FP] FAX ｺﾈｸﾀｶﾊﾞｰ
37	PMLT-1316FCZZ	AC	DJ	N	C	Sub ozone filter cushion ｻﾌﾞｵｿﾞﾝﾌｨﾙﾀｰﾓﾙﾄ
38	PFiLZ0296FCZZ	AQ	EQ	N	A	Sub ozone filter ｻﾌﾞｵｿﾞﾝﾌｨﾙﾀｰ
39	PCŌVP1706FCZ5	AE	DJ	N	C	Sub ozone filter cover (100V Series) ｻﾌﾞｵｿﾞﾝﾌｨﾙﾀｰｶﾊﾞｰ
	PCŌVP1706FCZZ	AE	DS	N	C	Sub ozone filter cover (200V Series) ｻﾌﾞｵｿﾞﾝﾌｨﾙﾀｰｶﾊﾞｰ
40	LX-NZ0088FCZZ	AC	DD		C	Nut ﾅｯﾄ
41	TLABZ4047FCZZ	AC	DJ		C	Enagy star label (Japan,U.Kingdom, Australia,New Zealand,Germany) ｴﾅｼﾞｰｽﾀｰﾗﾍﾞﾙ
42	TCAUA0770FCZZ	AB	DD		C	Service cautions label (Except Japan) ｻｰﾋﾞｽ注意ﾗﾍﾞﾙ
43	TLABF2705FCZZ	AB	DD		C	FCC conformity label A,B (U.S.A,Canada) FCC 適合ﾗﾍﾞﾙ A,B
45	TLABH4186FCZZ	AE	DS		C	Class A VCCI label (Japan only) ｸﾗｽ A VCCI ﾗﾍﾞﾙ
47	TLABS4306FCZZ	AC	DJ		C	Noise label class A (U.S.A,Canada) ﾉｲｽﾞﾗﾍﾞﾙｸﾗｽ A
48	TLABZ4694FCZZ	AF	DS		C	Imagery label (U.S.A only) ｲﾒｰｼﾞｬｰﾗﾍﾞﾙ
49	TLABZ4720FCZZ	AC	DJ		C	Heater SW label (Japan only) ﾋｰﾀｰｽｲｯﾁﾗﾍﾞﾙ
50	TLABZ0059QSZZ	AE	DJ		C	ECP label (Canada only) ECP ﾗﾍﾞﾙ

1 外装 1(Exteriors 1)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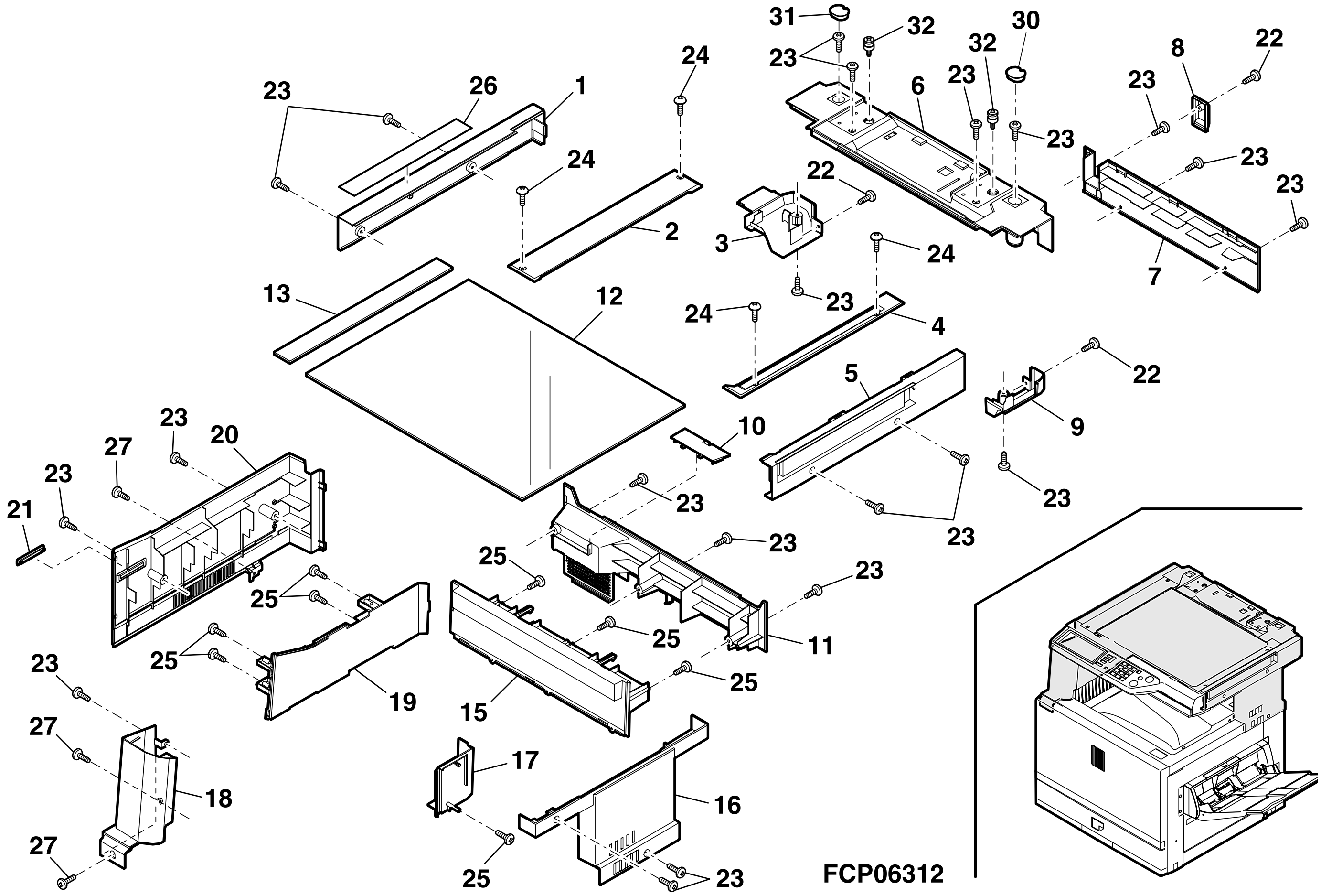
2 外装 2(Exteriors 2)

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION
		Ex.	Ja.			
1	GCAB-0995FCZ5	AQ	EQ	N	D	Upper cabinet left (100V Series) 上ｷｬﾋﾞ左
	GCAB-0995FCZZ	AR	EQ	N	D	Upper cabinet left (200V Series) 上ｷｬﾋﾞ左
2	CFiX-0571FC01	AY	FQ	N	D	Glass fixing left (Japan only) ｶﾞﾗｽ押え左
	CFiX-0571FC02	AN	EQ	N	D	Glass fixing left (Except Japan)[AB Series] ｶﾞﾗｽ押え左
	CFiX-0571FC03	AN	EQ	N	D	Glass fixing left (Except Japan)[Inch Series] ｶﾞﾗｽ押え左
3	GCAB-0998FCZ5	AP	EQ	N	D	Upper cabinet rear left (100V Series) 上ｷｬﾋﾞ後左
	GCAB-0998FCZZ	AG	DX	N	D	Upper cabinet rear left (200V Series) 上ｷｬﾋﾞ後左
4	LFiX-0572FCZ5	AS	EQ	N	D	Glass fixing right (100V Series) ｶﾞﾗｽ押え右
	LFiX-0572FCZZ	AK	DX	N	D	Glass fixing right (200V Series) ｶﾞﾗｽ押え右
5	GCAB-0994FCZ5	BA	FX	N	D	Upper cabinet right (100V Series) 上ｷｬﾋﾞ右
	GCAB-0994FCZZ	AR	EQ	N	D	Upper cabinet right (200V Series) 上ｷｬﾋﾞ右
6	GCAB-0996FCZ5	AW	FG	N	D	Upper cabinet rear upper (100V Series) 上ｷｬﾋﾞ後上
	GCAB-0996FCZZ	AW	FG	N	D	Upper cabinet rear upper (200V Series) 上ｷｬﾋﾞ後上
7	GCAB-0997FCZ5	AP	EQ	N	D	Upper cabinet rear lower (100V Series) 上ｷｬﾋﾞ後下
	GCAB-0997FCZZ	AQ	EQ	N	D	Upper cabinet rear lower (200V Series) 上ｷｬﾋﾞ後下
8	PFTA-0134FCZ1	AE	DS	N	C	Connector cover W ｺﾈｸﾀｰ蓋 W
9	GCAB-0999FCZ5	AG	DX	N	D	Upper cabinet rear right (100V Series) 上ｷｬﾋﾞ後右
	GCAB-0999FCZZ	AH	DX	N	D	Upper cabinet rear right (200V Series) 上ｷｬﾋﾞ後右
10	PCŌVP1646FCZZ	AG	DX	N	D	Ozone filter cover ｵｿﾞﾝﾌｨﾙﾀｰｶﾊﾞｰ
11	GCAB-1023FCZ5	BC	EQ	N	D	Rear joint cabinet (100V Series) 後連結ｷｬﾋﾞ
	GCAB-1023FCZZ	AT	EZ	N	D	Rear joint cabinet (200V Series) 後連結ｷｬﾋﾞ
12	PGLSP0003QSZZ	BA	FX		D	Table glass ﾃ-ﾌﾞﾙｶﾞﾗｽ
13	CGLSP0104DS51	AT	EZ	N	E	Shading glass unit ｼｪﾃﾞｨﾝｸﾞｶﾞﾗｽﾕﾆｯﾄ
15	GCAB-1019FCZ5	AV	FQ	N	D	Upper cabinet center (100V Series) 後ｷｬﾋﾞ中
	GCAB-1019FCZZ	AU	EZ	N	D	Upper cabinet center (200V Series) 後ｷｬﾋﾞ中
16	GCAB-1022FCZ5	AQ	EZ	N	D	Right joint cabinet B (100V Series) 右連結ｷｬﾋﾞ B
	GCAB-1022FCZZ	AU	EZ	N	D	Right joint cabinet B (200V Series) 右連結ｷｬﾋﾞ B
17	GCAB-1020FCZ5	AL	DX	N	D	Rear cabinet center (100V Series) 右ｷｬﾋﾞ中
	GCAB-1020FCZZ	AH	DX	N	D	Rear cabinet center (200V Series) 右ｷｬﾋﾞ中
18	GCAB-1025FCZ5	AZ	EQ	N	D	Front cabinet upper (100V Series) 前ｷｬﾋﾞ上
	GCAB-1025FCZZ	AR	EQ	N	D	Front cabinet upper (200V Series) 前ｷｬﾋﾞ上
19	GCAB-0982FCZ5	AU	FG	N	D	FD delivery enter cabinet (100V Series) FD 排紙口ｷｬﾋﾞ
	GCAB-0982FCZZ	AS	EQ	N	D	FD delivery enter cabinet (200V Series) FD 排紙口ｷｬﾋﾞ
20	GCAB-1024FCZ5	AU	FQ	N	D	FD joint cabinet (100V Series) FD 連結ｷｬﾋﾞ
	GCAB-1024FCZZ	AX	FG	N	D	FD joint cabinet (200V Series) FD 連結ｷｬﾋﾞ
21	PFTA-0144FCZZ	AE	DJ	N	D	Card reader cover ｶｰﾄﾞﾘｰﾀﾞｰ蓋
22	XHBSE30P08000	AA	DD		C	Screw(3×8) ﾋﾞｽ
23	XHBSE40P08000	AA	DD		C	Screw(4×8) ﾋﾞｽ
24	XBTSE40P06000	AA	DD		C	Screw(4×6) ﾋﾞｽ
25	XEBSE40P08000	AA	DD		C	Screw(4×8) ﾋﾞｽ
26	TLABH4748FCZZ	AF	DS	N	C	Copy prohibition caution label (Japan only) ｺﾋﾟｰ禁止注意ﾗﾍﾞﾙ
	TLABH4749FCZZ	AE	DJ	N	C	Copy prohibition caution label (Canada only) ｺﾋﾟｰ禁止注意ﾗﾍﾞﾙ
27	XEBSD40P10000	AA	DD		C	Screw(4×10) ﾋﾞｽ
30	PCŌVP0911FCZ2	AD	DJ	N	D	Upper exterior rear cover R 上ｷｬﾋﾞ後ｶﾊﾞｰ R (AR-C260F/C260FP/C260,C260M[U.S.A,CANADA,Australia,Europe])
31	PCŌVP0941FCZ2	AD	DJ	N	D	Upper exterior rear cover L 上ｷｬﾋﾞ後ｶﾊﾞｰ L (AR-C260F/C260FP/C260,C260M[U.S.A,CANADA,Australia,Europe])
32	LX-BZ0776FCZZ	AG	DS		C	Screw (AR-C260F/C260FP) ﾀﾞﾝﾈｼﾞ R

3 原稿検知ﾕﾆｯﾄ (Document detect unit)

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION
		Ex.	Ja.			
1	NSFTZ1805FCZZ	AE	DS		C	Original detection fulcrum shaft 原稿検知支点ｼｬﾌﾄ
2	XRESP30-06000	AA	DD		C	E type ring E- ﾘﾝｸﾞ
3	MSPRT1563FCZZ	AC	DD		C	Original detect spring 原稿検知ｽﾌﾟﾘﾝｸﾞ
4	XBPSD30P06KS0	AA	DD		C	Screw(3×6KS) ﾋﾞｽ
5	MARMP0148FCZ2	AK	DX		C	Original detector arm lower T 原稿検知ｱｰﾑ下 T
6	PSLDH0178FCZZ	AD	DJ		C	Original detect shield plate 原稿検知遮光板
7	CPWBF1453FCE1	AX	FG		E	ORS emission PWB 原稿検知発光基板
8	LHLDZ1085FCZ2	AD	DJ		C	Holder ﾎﾙﾀﾞｰ
9	LBSHZ1102CCZZ	AC	DD		C	Rubber roller bushing 1 ｺﾞﾑﾛｰﾗｰ 1 ﾌﾞｯｼﾝｸﾞ
10	MARMP0147FCZ2	AK	DX		C	Original detector arm upper T 原稿検知ｱｰﾑ上 T
11	XEPSD30P05000	AA	DD		C	Screw(3×5) ﾋﾞｽ
12	GCAB-0996FCZ5	AW	FG	N	D	Upper cabinet rear upper (100V Series) 上ｷｬﾋﾞ後上
	GCAB-0996FCZZ	AW	FG	N	D	Upper cabinet rear upper (200V Series) 上ｷｬﾋﾞ後上
13	XEBSD30P08000	AA	DD		C	Screw(3×8) ﾋﾞｽ
14	CARMP0147DS51	BA	FX		E	Original detector luminescence unit 原稿検知発光ﾕﾆｯﾄ

2 外装 2(Exteriors 2)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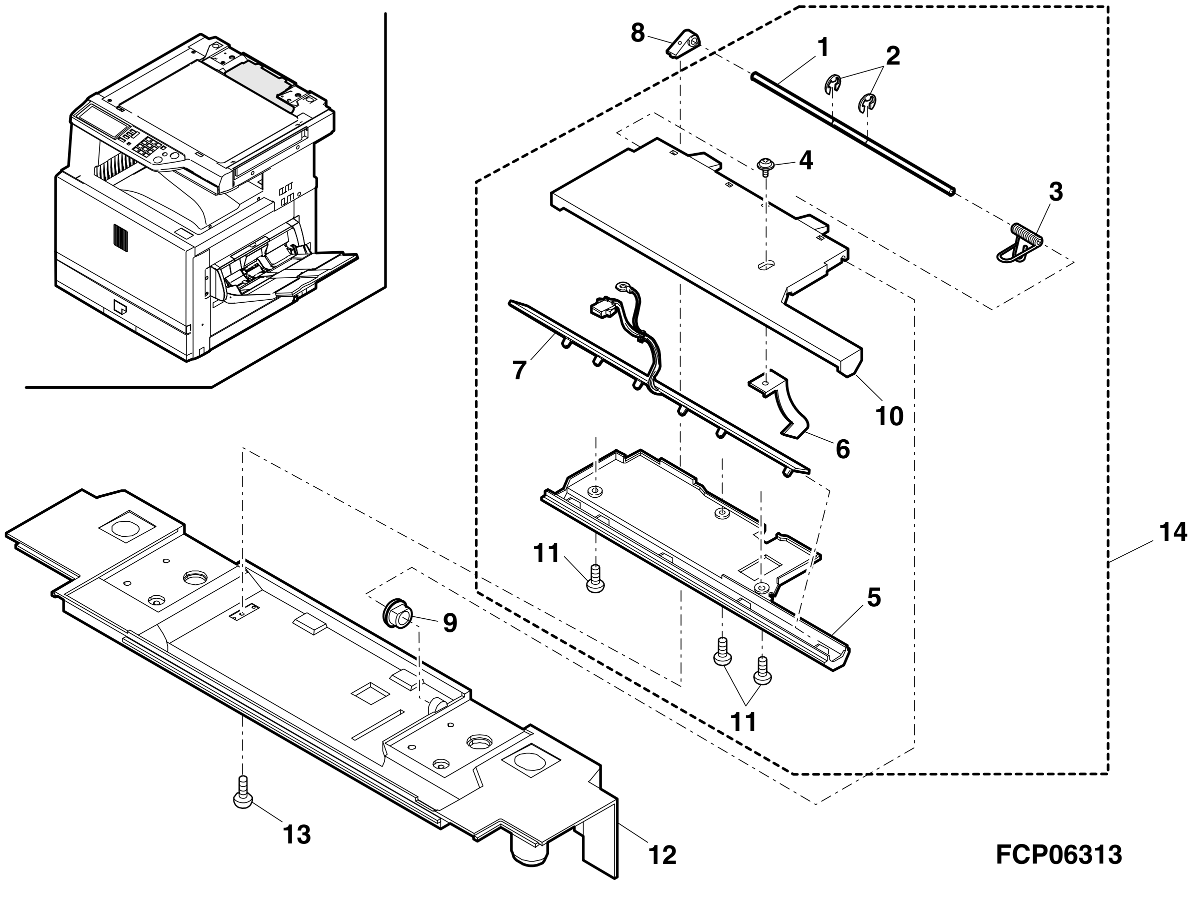
3 原稿検知ﾕﾆｯﾄ (Document detect unit)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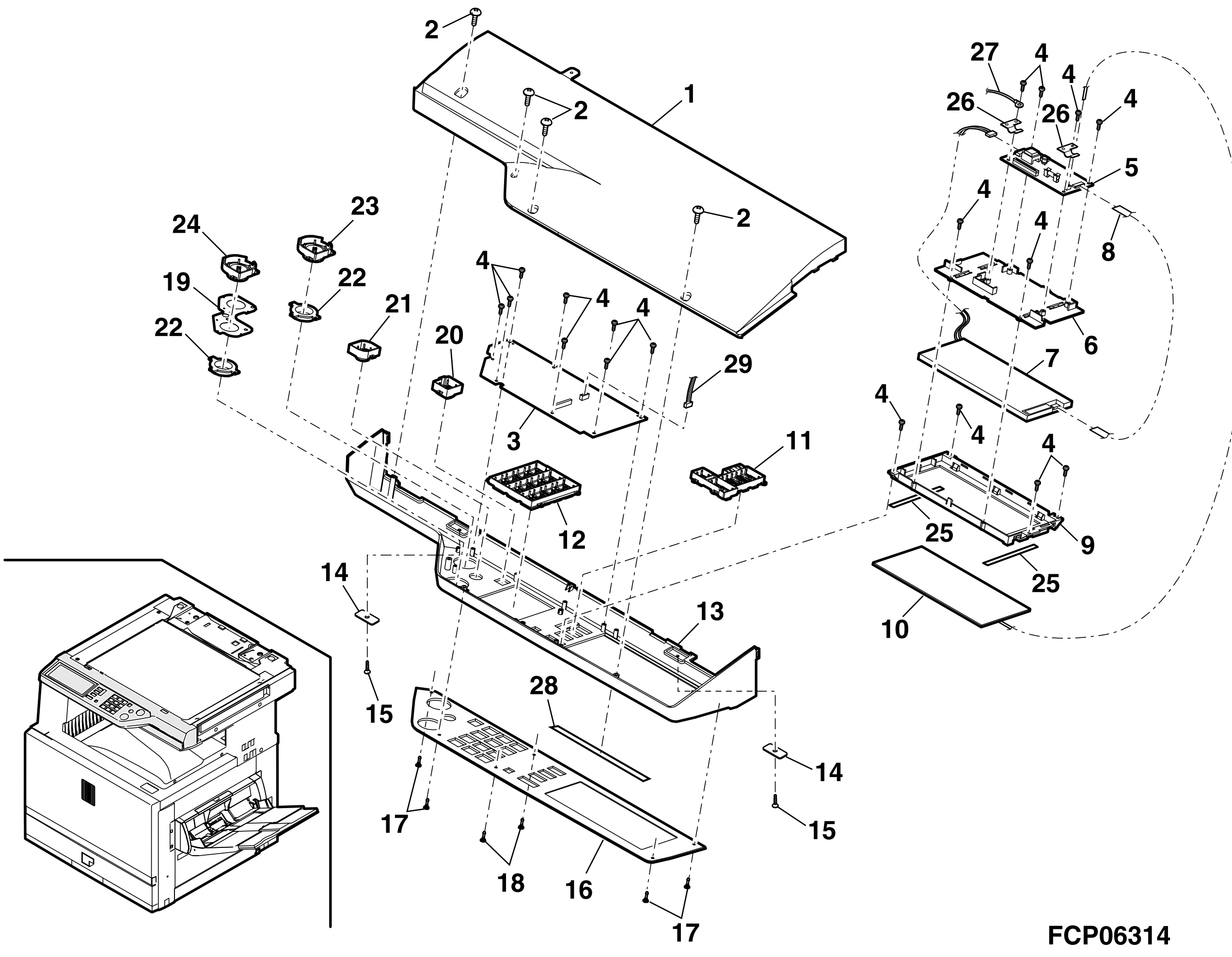
4 操作部 (Operation panel section)

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION
		Ex.	Ja.			
1	LDAiU0646FCZ5	BF	GN	N	C	Operation base (100V Series) 操作台板
	LDAiU0646FCZZ	AX	FG	N	C	Operation base (200V Series) 操作台板
2	XEBSE40P08000	AA	DD		C	Screw(4×8) ﾋﾞｽ
3	CPWBF1525FCE1	BD	GJ	N	E	Operation key PWB 操作ｷｰ基板
4	XEPSD30P08000	AA	DD		C	Screw(3×8) ﾋﾞｽ
5	CPWBN1560FCE1	BM	HR	N	E	LVDS/INV PWB LVDS/INV 基板
6	LHLDZ1459FCZZ	AE	DS		C	LCD holder B LCD ﾎﾙﾀﾞｰB
7	VVLLM065HB1-1	CB	TX		B	LCD(LLM065HB1) LCD
8	QCNW-0214FCZZ	AD	DJ	N	C	OP-LCD FFC OP-LCD FFC
9	LHLDZ1458FCZZ	AF	DS		C	LCD holder A LCD ﾎﾙﾀﾞｰA
10	HPNLH0249FCZZ	BF	GN		C	Touch panel N ﾀｯﾁﾊﾟﾈﾙ N
11	CBTN-0253FC01	AN	EG		D	Change key 切り替えｷｰ
12	CBTN-0252FC01	AP	EQ		D	Ten key ﾃﾝｷｰ
13	HPNLC0247FCZ5	BD	GN	N	C	Operation panel A (100V Series) 操作ﾊﾟﾈﾙ A
	HPNLC0247FCZZ	AV	FG	N	C	Operation panel A (200V Series) 操作ﾊﾟﾈﾙ A
14	LPLTM2573FCZ1	AD	DJ		C	MG Plate MG ﾌﾟﾚｰﾄ
15	XHSSE30P10000	AA	DD		C	Screw(3×10) ﾋﾞｽ
16	CPNLC0248FC01	AU	FG	N	D	Operation panel B (AR-C260S/C260M[JAPAN]) 操作ﾊﾟﾈﾙ B
	CPNLC0248FC03	AU	GN	N	D	Operation panel B (AR-C260F/C260FP) 操作ﾊﾟﾈﾙ B
	CPNLC0248FC02	AV	FG	N	D	Operation panel B (AR-C260/C260M[Except JAPAN]) 操作ﾊﾟﾈﾙ B
17	LPiNS0014QSCZ	AF	DS	N	C	Pin ﾋﾟﾝ
18	LPiNS0014QSBZ	AF	DS	N	C	Pin ﾋﾟﾝ
19	PSHEZ5065FCZZ	AQ	EQ	N	C	Copy key sheet W ｺﾋﾟｰｷｰ用ｼｰﾄ W
20	CBTN-0260FC01	AE	DX	N	D	C key C ｷｰ
21	CBTN-0261FC01	AK	DJ	N	D	CA key CA ｷｰ
22	PFiLW0294FCZZ	AE	DS	N	C	Copy key filter ｺﾋﾟｰｷｰｽﾓｰｸ
23	CBTN-0256FC02	AR	EQ	N	D	Color copy key ｶﾗｰｺﾋﾟｰｷｰ
24	CBTN-0256FC03	AN	EG	N	D	Monochrome copy key 白黒ｺﾋﾟｰｷｰ
25	PSHEZ4906FCZZ	AC	DJ		C	Touch panel sheet ﾀｯﾁﾊﾟﾈﾙｼｰﾄ
26	MSPRP3009FCZZ	AD	DJ		C	LCD earth spring LCD 用ｱｰｽ板ﾊﾞﾈ
27	DHAi-3193FC11	AC	DJ	N	C	Panel earth harness ﾊﾟﾈﾙｱｰｽﾊｰﾈｽ
28	PSHEP5006FCZZ	AE	DS	N	C	Panel sheet ﾊﾟﾈﾙﾖｳｼｰﾄ
29	DHAi-3419FCZZ	AE	DS	N	C	OP-PD harness OP-PD ﾊｰﾈｽ

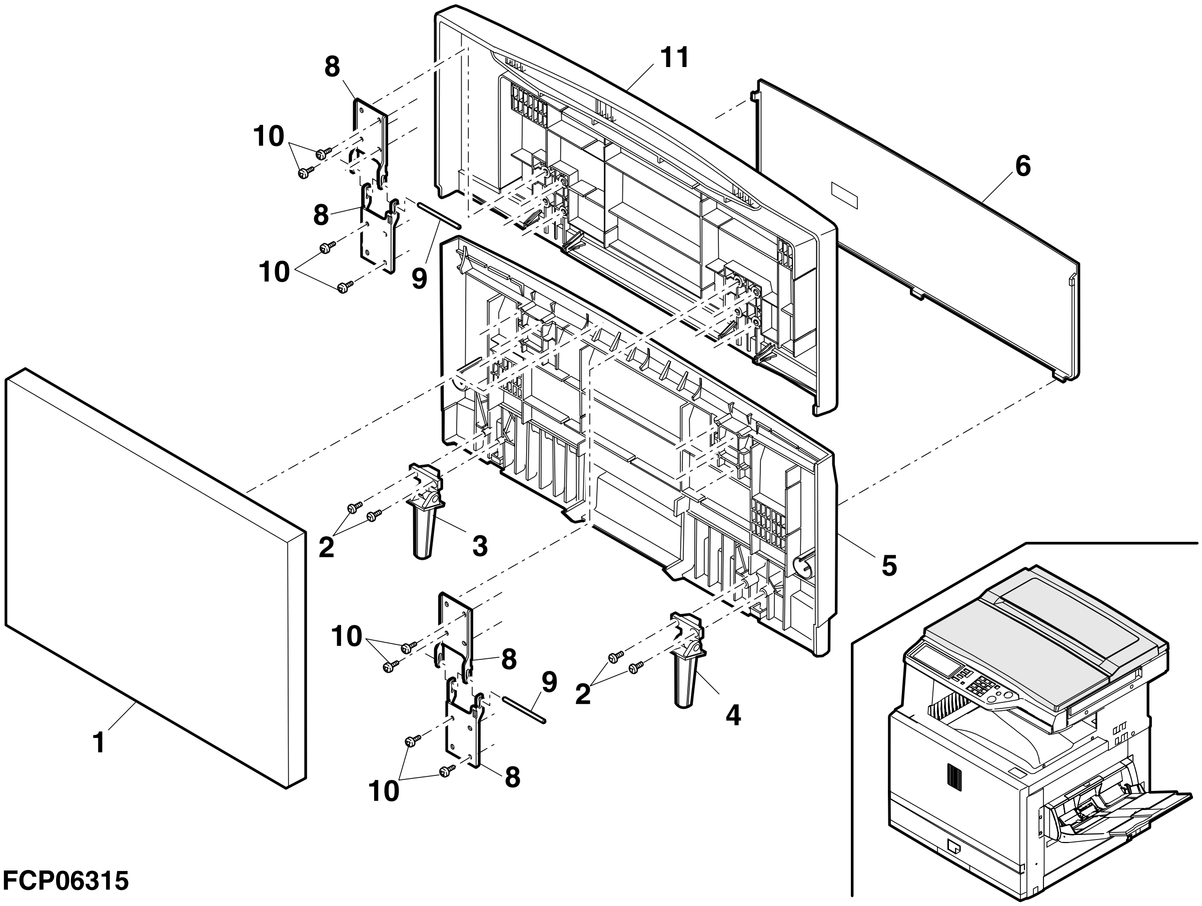
4 操作部 (Operation panel section)



5 ｵﾘｼﾞﾅﾙｶﾊﾞｰﾕﾆｯﾄ (Original cover unit)
[AR-C260S/AR-C260,AR-C260M(Except U.S.A,Europe,Australia,New Zealand)]

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION	
		Ex.	Ja.				
1	PSHEZ5059FCZZ	AU	EZ		D	OC sheet	OC ﾏｯﾄ
2	XJBSD40P12000	AA	DD		C	Screw(4×12)	ﾋﾞｽ
3	MHNG-0210FCZZ	AQ	EZ		C	OC hinge L	OC ﾋﾝｼﾞ L
4	MHNG-0211FCZZ	AQ	EZ		C	OC hinge R	OC ﾋﾝｼﾞ R
5	GCŌVH0212FCZ2	BB	GD	N	D	Original cover R	ｵﾘｼﾞﾅﾙｶﾊﾞｰR
6	PSTK-0015FCZ2	AU	EZ	N	C	OR stocker	OR ｽﾄｯｶｰ
8	MHNG-0170FCZ1	AE	DS		C	OC cover hinge	OC ｶﾊﾞｰﾋﾝｼﾞ
9	LPiNS0280FCZZ	AD	DJ		C	OC cover hinge pin	OC ｶﾊﾞｰﾋﾝｼﾞﾋﾟﾝ
10	XJBSD40P08000	AA	DD		C	Screw(4×8)	ﾋﾞｽ
11	GCŌVH0211FCZ2	BB	GD	N	D	Original cover F	ｵﾘｼﾞﾅﾙｶﾊﾞｰF
	(Unit)						
901	CCŌVH0212FC34	BN	HV	N	D	OC unit	OC ﾕﾆｯﾄ

5 ｵﾘｼﾞﾅﾙｶﾊﾞｰﾕﾆｯﾄ (Original cover unit)
[AR-C260S/AR-C260,AR-C260M(Except U.S.A,Europe,Australia,New Zealand)]



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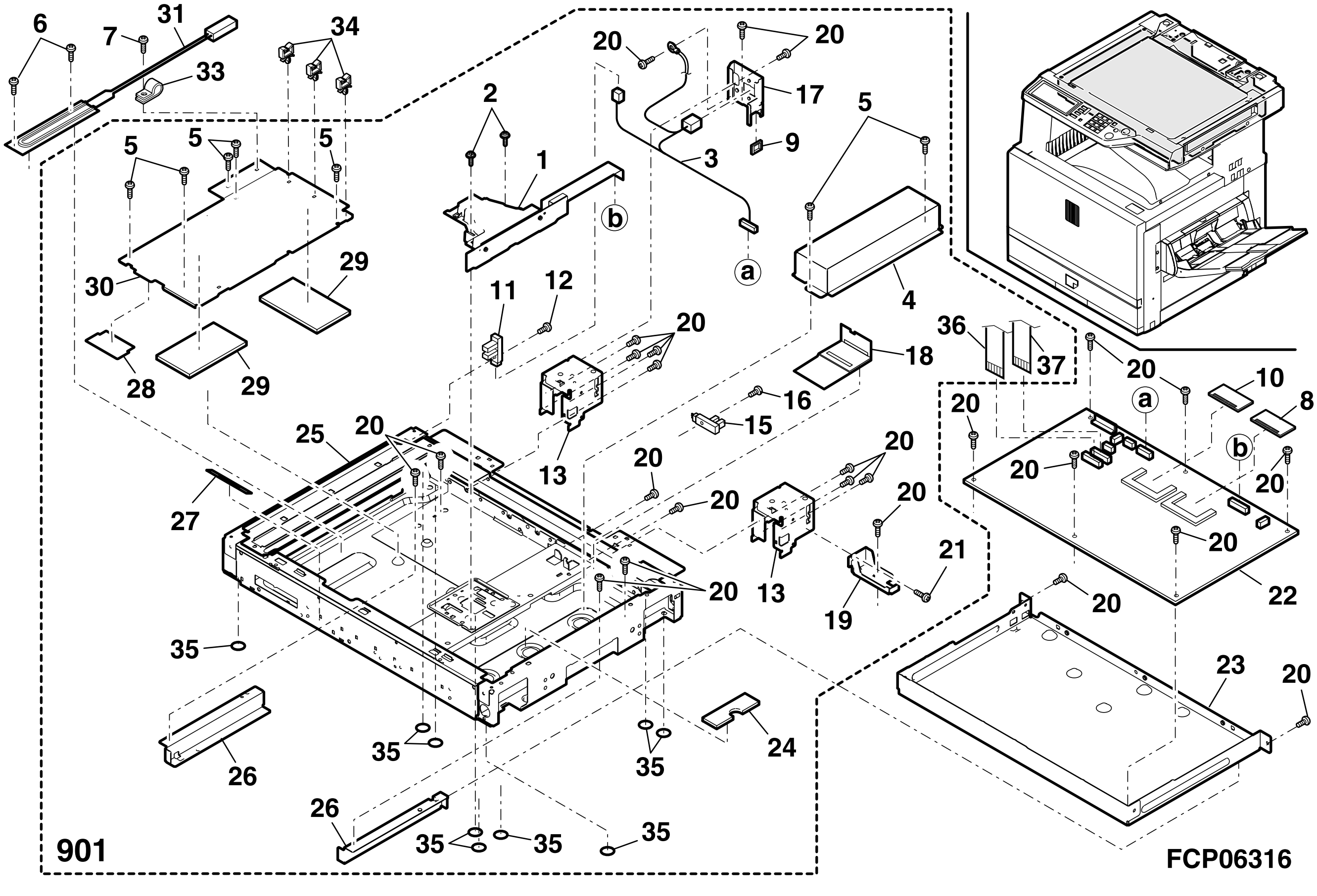
6 ｽｷｬﾅｰﾕﾆｯﾄ 1(Scanner unit 1)

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION
		Ex.	Ja.			
1	CPLTM5995DS51	CA	TV	N	E	Lens W unit ﾚﾝｽﾞ W ﾕﾆｯﾄ
2	XHBSD30P08KS0	AB	DD	N	C	Screw(3×8KS) ﾋﾞｽ
3	DHAi−3369FCZZ	AN	EG	N	C	MFP sensor harness MFP ｾﾝｻｰﾊｰﾈｽ
4	PCŌVP1631FCZZ	AP	EQ	N	C	Dark box cover 暗箱ｶﾊﾞｰ
5	XHBSD30P04000	AA	DD		C	Screw(3×4) ﾋﾞｽ
6	XHBSE30P08000	AA	DD		C	Screw(3×8) (Japan only) ﾋﾞｽ
7	XHBSD30P06000	AA	DD		C	Screw(3×6) (Japan only) ﾋﾞｽ
8	VHi28F161L01F	BA	FX	N	C	MFP FLASH ROM(28F161L01F) MFP ﾌﾗｯｼｭﾛﾑ
9	LBSHC0355FCZZ	AF	DS	N	C	Bushing(LES-1017) ﾌﾞｯｼﾝｸﾞ
10	VHi28F162L01F	BD	GN	N	C	OPE FLASH ROM(28F162L01F) OPE ﾌﾗｯｼｭﾛﾑ
11	VHPGP3A38//−1	AH	DX		B	Photo sensor(GP3A38) ﾌｫﾄｾﾝｻｰ
12	XBBSD40P14000	AA	DD		C	Screw(4×14) ﾋﾞｽ
13	LPLTM5989FCZZ	AQ	EQ	N	C	OC fixing plate OC 取付けﾌﾟﾚｰﾄ
15	VHPGP1A22LC−1	AK	EB		B	Photo sensor(GP1A22LC) ﾌｫﾄｾﾝｻｰ
16	XBBSD40P10000	AA	DD		C	Screw(4×10) ﾋﾞｽ
17	LPLTM6096FCZZ	AF	DS	N	C	Connector fixing plate ｺﾈｸﾀ取付けﾌﾟﾚｰﾄ
18	PSHEP5075FCZZ	AF	DS	N	C	Harness protect film N ﾊｰﾈｽ保護ﾌｨﾙﾑ N
19	LANGF1423FCZZ	AH	DX	N	C	Support angle R 補強ｱﾝｸﾞﾙ R
20	XHBSD30P06000	AA	DD		C	Screw(3×6) ﾋﾞｽ
21	XHBSE40P08000	AA	DD		C	Screw(4×8) ﾋﾞｽ
22	CPWBN1519DS52	CX	＊＊	N	E	MFPC2 PWB MFPC2 基板
23	LPLTM5991FCZZ	AW	FG	N	C	MPF support plate MPF 支持ﾌﾟﾚｰﾄ
24	PCUSS0374FCZZ	AE	DS	N	C	Protection cushion ﾎﾞｳｼﾝｸｯｼｮﾝ
25	CDAiU0618FC02	BN	HV	N	C	Optical base 光学台板
26	LRALM0201FCZZ	AN	EG	N	C	MFP rail MFP ﾚｰﾙ
27	PSHEZ4843FCZ1	AC	DJ		C	Harnes fixing sheet 3 ﾊｰﾈｽ押えｼｰﾄ 3
28	PSHEP4932FCZ1	AC	DJ		C	Harness fixing sheet 4 ﾊｰﾈｽ押えｼｰﾄ 4
29	PMLT−1298FCZ1	AE	DS	N	C	FFC cushion FFC ﾓﾙﾄ
30	PCŌVP1632FCZZ	AM	EG	N	C	FCC cover FFC ｶﾊﾞｰ
31	RHETP0099FCZZ	AV	EQ	N	C	Dry heater (Japan only) 除湿ﾋｰﾀｰ
33	LBNDJ0002FCZZ	AA	DD		C	Wire fixing band(HP-4N) (Japan only) ﾊﾞﾝﾄﾞ
34	LHLDW5031BCZZ	AA	DD		C	Clamp (Japan only) ｹｰﾌﾞﾙﾎﾙﾀﾞｰ
35	PSHEZ4836FCZZ	AB	DJ		C	Screw protect sheet ﾋﾞｽ保護ｼｰﾄ
36	QCNW−0197FCZZ	AL	EB	N	C	MFP-OP FFC MFP-OP FFC
37	QCNW−0213FCZZ	AH	DX	N	C	OP-KEY FFC OP-KEY FFC
	(Unit)					
901	DUNT−7248DSZZ	CM	UW	N	E	Scaner unit(Include Block 7) ｽｷｬﾅｰﾕﾆｯﾄ(ﾌﾞﾛｯｸ 7 含む)

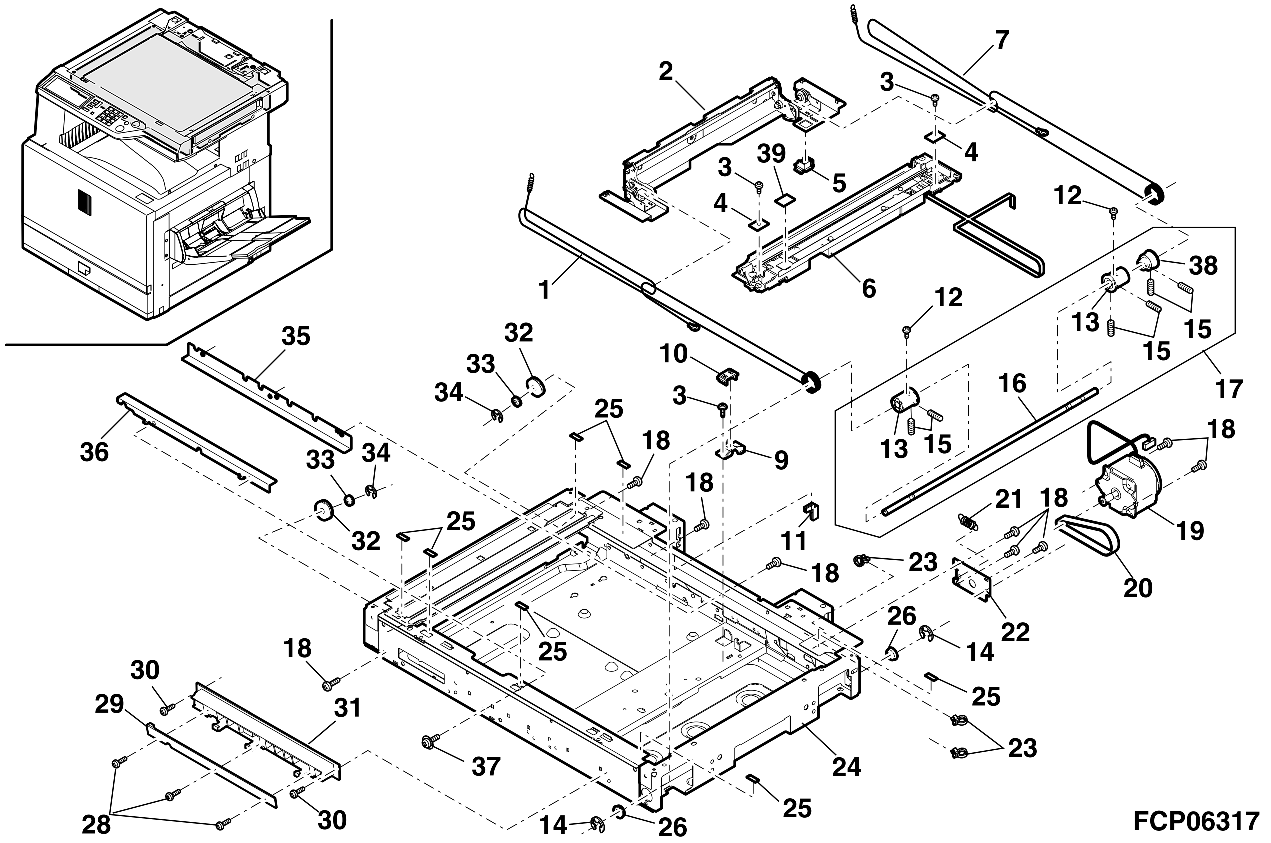
6 ｽｷｬﾅｰﾕﾆｯﾄ 1(Scanner unit 1)



7 ｽｷｬﾅｰﾕﾆｯﾄ 2(Scanner unit 2)

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION	
		Ex.	Ja.				
1	PWiR-0199FCZZ	AR	EQ	N	C	MB wire FW	MB ﾜｲﾔｰ FW
2	CHLDZ1446FC32	BH	HC	N	E	2nd.3rd mirror W unit	2.3 ﾐﾗｰ W ﾕﾆｯﾄ
3	XBBSD40P06000	AA	DD		C	Screw(4×6)	ﾋﾞｽ
4	LHLDZ1505FCZZ	AC	DJ		C	Wire holder	ﾜｲﾔｰﾎﾙﾀﾞｰ
5	PGiDM1890FCZZ	AC	DJ		C	CL guide	CL ｶﾞｲﾄﾞ
⚠ 6	CDAiU0619DS53	BR	LX	N	E	Lamp unit	ﾗﾝﾌﾟﾕﾆｯﾄ
7	PWiR-0200FCZZ	AR	EQ	N	C	MB wire RW	MB ﾜｲﾔｰ RW
9	LDAiU0610FCZZ	AE	DS		C	Harness fixing base	ﾊｰﾈｽ押えﾍﾞｰｽ
10	LFiX-0537FCZZ	AD	DJ		C	Harness fixing plate	ﾊｰﾈｽ押え
11	LBSHC0356FCZZ	AC	DJ	N	C	Bushing(T1.6)	ﾌﾞｯｼﾝｸﾞ
12	LX-BZ0324FCZZ	AA	DD		C	Screw	下ｸﾘｰﾅ用ﾋﾞｽ
13	NPLYZ0013QSZZ	AL	EB		C	Winding pulley PAN	巻取りﾌﾟｰﾘｰ PAN
14	XRESP70-08000	AA	DD		C	E type ring	E- ﾘﾝｸﾞ
15	LX-BZ0049FCZZ	AB	DD		C	Screw(M4×6W)	ﾑｼﾋﾞｽ
16	NSFTZ2694FCZZ	AP	EQ	N	C	Winder drive shaft	巻取り駆動軸
17	CSFTZ2694FC31	BA	FX	N	E	Winder drive shaft unit	巻取り駆動ｼｬﾌﾄﾕﾆｯﾄ
18	XHBSD30P06000	AA	DD		C	Screw(3×6)	ﾋﾞｽ
19	RMŌTS0885FCZ1	BE	GN	N	B	Scanner motor	ｽｷｬﾅｰﾓｰﾀ
20	NBLTH0371FCZ1	AF	DS	N	B	Winder drive belt	巻取り駆動ﾍﾞﾙﾄ
21	MSPRT3098FCZZ	AC	DJ	N	C	Belt tension spring	ﾍﾞﾙﾄﾃﾝｼｮﾝｽﾌﾟﾘﾝｸﾞ
22	LPLTM5992FCZZ	AK	DX	N	C	Mirror motor fixing plate	ﾐﾗｰﾓｰﾀ取付けﾌﾟﾚｰﾄ
23	LBNDJ0043FCZ1	AA	DJ		C	Band(SG-130)	ﾊﾞﾝﾄﾞ
24	CDAiU0618FC02	BN	HV	N	C	Optical base	光学台板
25	PGUMS0283FCZ1	AA	DJ		C	Table glass rubber	ﾃｰﾌﾞﾙｶﾞﾗｽｺﾞﾑ
26	NBRGY0466FCZZ	AK	EB		C	Bearing(M8-M16)	ﾍﾞｱﾘﾝｸﾞ
28	XEPSD40P06000	AA	DD		C	Screw(4×6)	ﾋﾞｽ
29	CPWBF1454FCE1	BN	LE		E	ORS PD PWB	原稿検知受光基板
30	XHBSD40P06000	AA	DD		C	Screw(4×6)	ﾋﾞｽ
31	LHLDZ1381FCZZ	AL	EB		C	ORS PWB holder	受光基板ﾎﾙﾀﾞｰ
32	NPLYZ0005QSZZ	AG	DX		C	Pulley	定ﾌﾟ-ﾘ
33	NPLYZ0006QSZZ	AD	DJ		C	L pulley	L ﾌﾟ-ﾘ
34	XRESP40-05000	AA	DD		C	E type ring	E- ﾘﾝｸﾞ
35	LRALM0184FCZZ	AG	DX		C	MB-B rail R	MB-B ﾚｰﾙ R
36	LRALM0183FCZZ	AG	DX		C	MB-B rail F	MB-B ﾚｰﾙ F
37	LX-BZ0004QSZZ	AB	DD		C	Screw	ﾋﾞｽ
38	NPLYZ0401FCZZ	BB	GD	N	C	Pulley(50T)	ﾌﾟ-ﾘ-
39	TLABZ4335FCZZ	AB	DJ		C	High voltage caution label	高圧注意ﾗﾍﾞﾙ
	(Unit)						
901	DUNT-7248DSZZ	CM	UW	N	E	Scaner unit(Include Block 6 Without No.39)	ｽｷｬﾅｰﾕﾆｯﾄ (ﾌﾞﾛｯｸ 6 含む。No.39 除く)

7 ｽｷｬﾅｰﾕﾆｯﾄ 2(Scanner unit 2)



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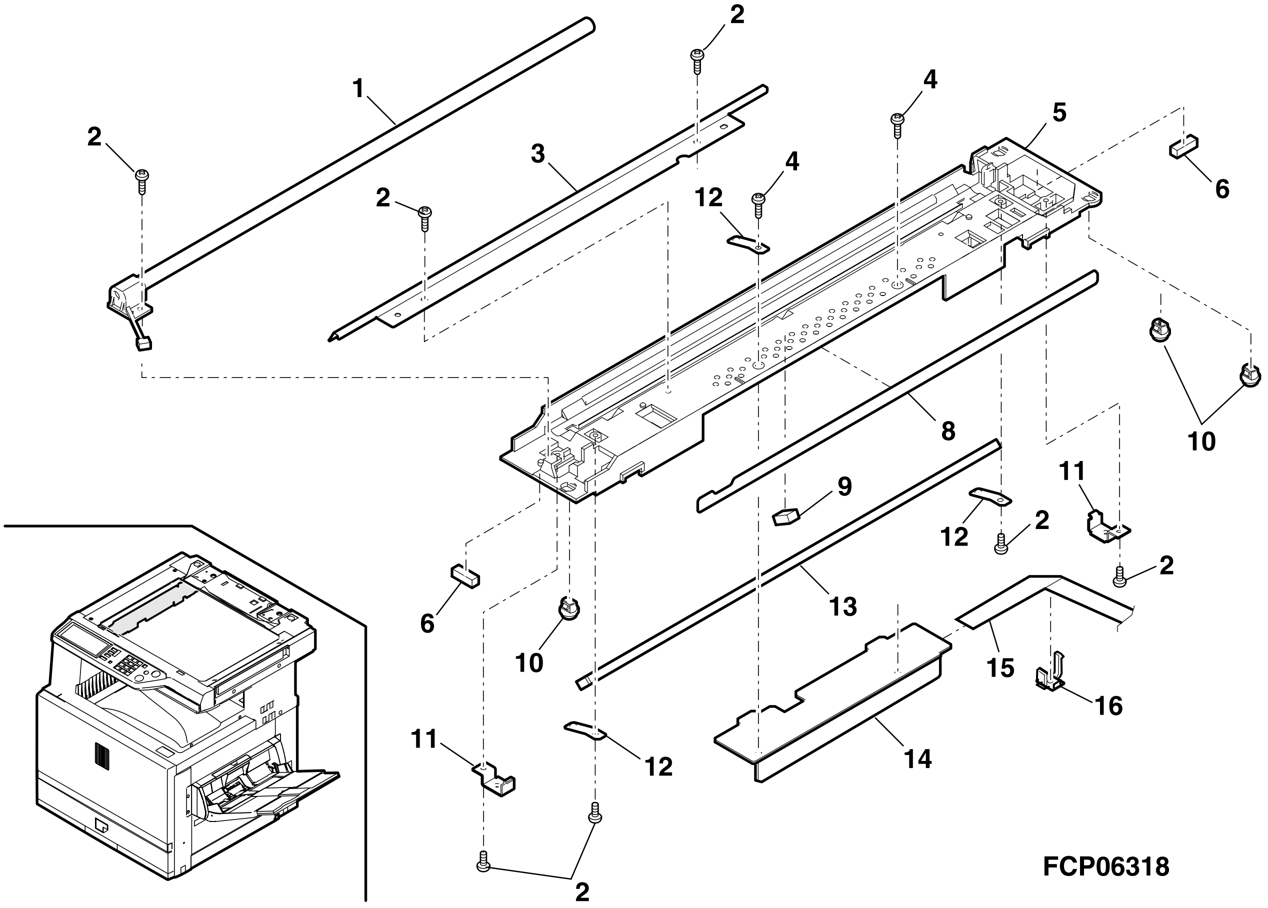
8 ﾗﾝﾌﾟﾕﾆｯﾄ (Lamp unit)

	NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION	
			Ex.	Ja.				
⚠	1	RLMPD0674FCZ1	BE	GN	N	B	Copy lanp W	ｷｾﾉﾝﾗﾝﾌﾟ W
	2	XEBSD30P08000	AA	DD		C	Screw(3×8)	ﾋﾞｽ
	3	PREFL0172FCZZ	AK	DX		C	Copy lamp reflector	ﾘﾌﾚｸﾀｰ
	4	XBPSD30P12XS0	AA	DD	N	C	Screw(3×12XS)	ﾋﾞｽ
	5	LDAiU0619FCZ1	AS	EQ		C	Lamp base	ﾗﾝﾌﾟﾍﾞｰｽ
	6	PCUSU0203FCZZ	AE	DS		C	Protection cushion	ﾎﾞｳｼﾝｸｯｼｮﾝ
	8	PSHEP5019FCZZ	AF	DS	N	C	Shading sheet	遮光ﾌｨﾙﾑ
	9	PCUSF0334FCZZ	AP	EQ		C	Mirror cushion	ﾐﾗ-ｸｯｼｮﾝ
	10	MSLi-0138FCZZ	AC	DJ		C	Slider	ｽﾍﾞﾘ材
	11	LSTYM0261FCZZ	AB	DJ		C	Wire support plate	ﾜｲﾔｰ支持板
	12	MSPRP2825FCZZ	AC	DJ		C	Mirror spring	ﾐﾗｰｽﾌﾟﾘﾝｸﾞ
	13	PMiR-0164FCZZ	AP	EQ		C	1st mirror	第一ﾐﾗ-
	14	CPWBF1523FC32	BF	GN	N	E	CL inverter PWB	CL ｲﾝﾊﾞｰﾀ基板
	15	QCNW-0199FCZZ	AE	DJ	N	C	MFP-LAMP FFC	MFP-LAMP FFC
	16	LFiX-0545FCZZ	AC	DJ		C	CL read harness fixing plate	CL ﾘｰﾄﾞﾊｰﾈｽ押え
		(Unit)						
⚠	901	CDAiU0619DS53	BR	LX	N	E	Lamp unit	ﾗﾝﾌﾟﾕﾆｯﾄ

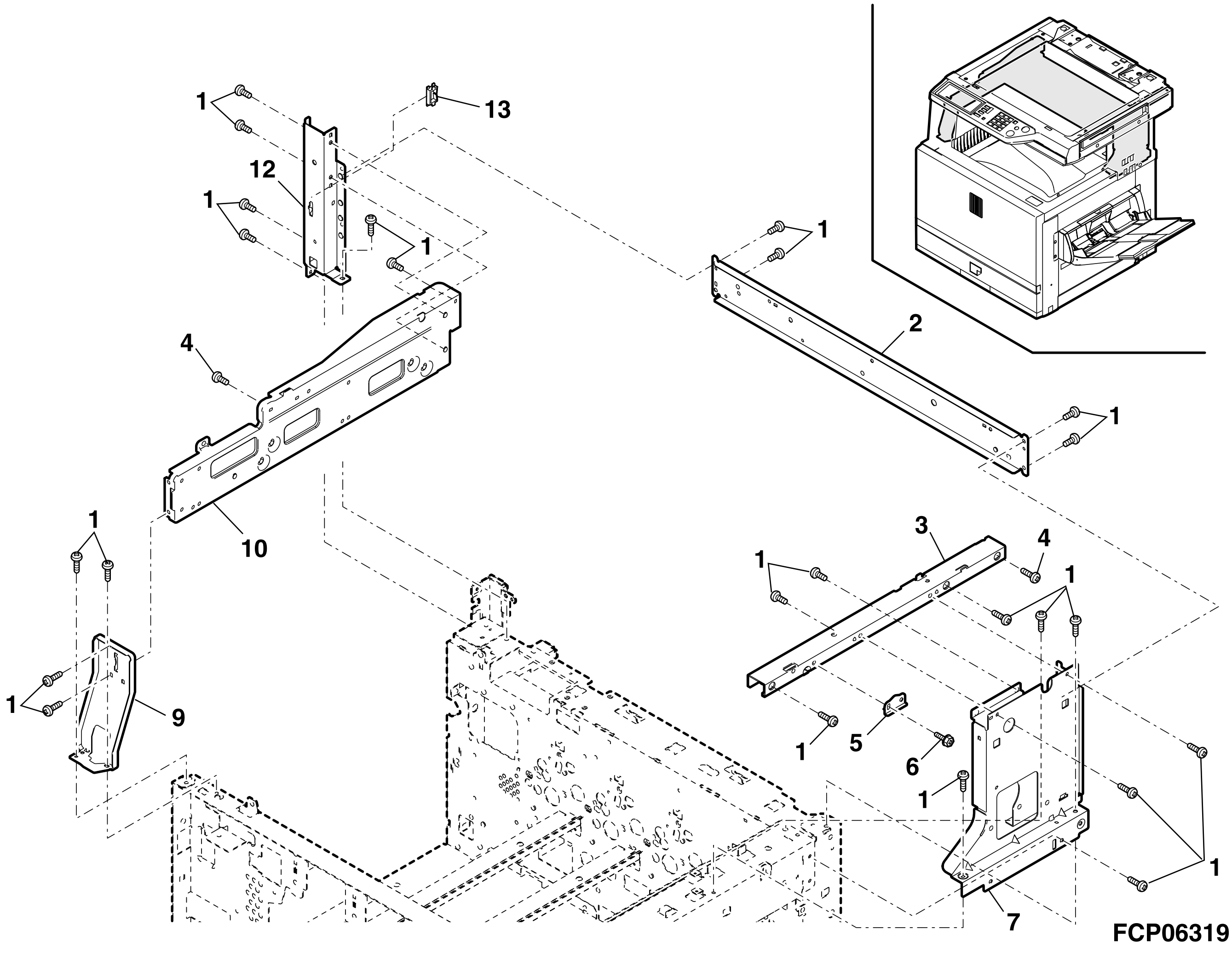
8 ﾗﾝﾌﾟﾕﾆｯﾄ (Lamp unit)



9 ｽｷｬﾅｰ連結ﾕﾆｯﾄ (Scanner joint unit)

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION	
		Ex.	Ja.				
1	XHBSE40P08000	AA	DD		C	Screw(4×8)	ﾋﾞｽ
2	LPLTM6084FCZZ	AK	EB	N	C	Scaner joint plate Rear	ｽｷｬﾅ連結後ﾌﾟﾚｰﾄ
3	LPLTM6087FCZZ	AN	EG	N	C	Scaner joint plate IN	ｽｷｬﾅ連結ﾌﾟﾚｰﾄ IN
4	XHBSD30P08KS0	AB	DD	N	C	Screw(3×8KS)	ﾋﾞｽ
5	LPLTM6095FCZZ	AC	DJ	N	C	Scanner adjust plate	ｽｷｬﾅｰ調整ﾌﾟﾚｰﾄ
6	LX-BZ0880FCZZ	AB	DD		C	Screw	ﾋﾞｽ
7	LPLTM6083FCZZ	AV	FG	N	C	Scaner joint plate R	ｽｷｬﾅ連結右ﾌﾟﾚｰﾄ
9	LPLTM6085FCZZ	AN	EG	N	C	Scaner joint plate F	ｽｷｬﾅ連結前ﾌﾟﾚｰﾄ
10	LPLTM6082FCZZ	AT	EZ	N	C	Scaner joint plate L	ｽｷｬﾅ連結左ﾌﾟﾚｰﾄ
12	LPLTM6086FCZZ	AK	DX	N	C	Scaner joint plate V	ｽｷｬﾅ連結縦ﾌﾟﾚｰﾄ
13	LHLDW0595FCZZ	AC	DD		C	Edge saddle(EDS2)	ｴｯｼﾞｻﾄﾙ

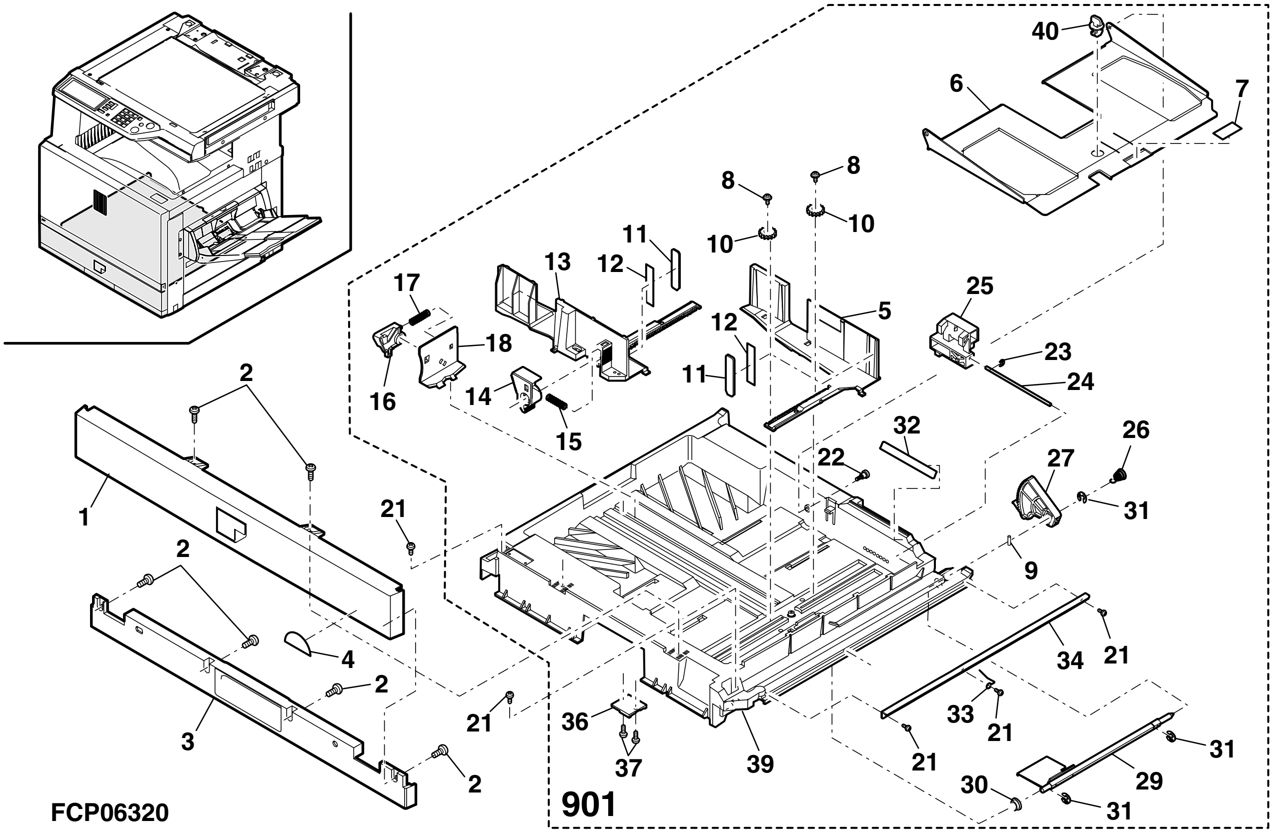
9 ｽｷｬﾅｰ連結ﾕﾆｯﾄ (Scanner joint unit)



10 ｶｾｯﾄﾕﾆｯﾄ (Casette unit)

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION		
		Ex.	Ja.					
1	JHNDP0164FCZ3	BL	HL	N	D	Tray Handle upper		ﾄﾚｲ取手上
2	XEBSE40P08000	AA	DD		C	Screw(4×8)		ﾋﾞｽ
3	PCOVP1643FCZ1	AU	EZ	N	D	Handle cover DSK upper		取手ｶﾊﾞｰ DSK 上
4	TLABZ4047FCZZ	AC	DJ		C	Enagy star label	(U.S.A)	ｴﾅｼﾞｰｽﾀｰﾗﾍﾞﾙ
5	LPLTP5412FCZZ	AP	EQ		C	Side plate R		側板 R
6	LPLTM5414FCZ1	AR	EQ		C	Rotation plate		回転ﾌﾟﾚｰﾄ
7	PSHEZ3130FCZZ	AB	DD		C	Rotation plate sheet		回転ﾌﾟﾚｰﾄｼｰﾄｸﾗﾘｰﾉ
8	LX－BZ0884FCZZ	AB	DD		C	Pinion gear CGR		ﾋﾟﾆｵﾝｷﾞｬ CGR
9	LPiNS7062SCZZ	AA	DD		C	Pin(ϕ3-16)		ﾋﾟﾝ
10	NGERH0193FCZZ	AB	DD		C	Manual feed gear		手差しｷﾞｬ
11	PGiDH1833FCZ1	AC	DJ		C	Side plate guide		側板ｶﾞｲﾄﾞ
12	PTPE－0243FCZ1	AC	DJ		C	Side plate tape N		側板両面ﾃｰﾌﾟ N
13	LPLTP5411FCZZ	AQ	EQ		C	Side plate F		側板 F
14	MLEVP0755FCZ1	AE	DJ		C	Side plate F lever		側板 F ﾚﾊﾞ -
15	MSPRC2631FCZZ	AC	DJ		C	Side plate F lever spring		側板 F ﾚﾊﾞｽﾌﾟﾘﾝｸﾞ
16	MLEVP0754FCZZ	AF	DS		C	Rear plate lever copier		後端ﾚﾊﾞｰｺﾋﾟｱ
17	MSPRC2640FCZZ	AC	DJ		C	Rear plate spring		後端板ｽﾌﾟﾘﾝｸﾞ
18	LPLTP5413FCZZ	AF	DS		C	Rear plate		後端板
21	XEBSD40P08000	AA	DD		C	Screw(4×8)		ﾋﾞｽ
22	LX－BZ0833FCZZ	AC	DD		C	Screw		ﾋﾞｽ
23	LSTPP0314FCZZ	AA	DJ		C	Stopper		ｽﾄｯﾊﾟｰ
24	NSFTZ2467FCZZ	AF	DS		C	Size detection rack shaft		ｻｲｽﾞ検知ﾗｯｸｼｬﾌﾄ
25	LDAiU0576FCZZ	AG	DX		C	Size detection block		ｻｲｽﾞ検知ﾌﾞﾛｯｸ
26	MSPRC2642FCZ1	AB	DJ		C	Tray earth spring		ｶｾｯﾄｱｰｽｽﾌﾟﾘﾝｸﾞ
27	NGERK1272FCZ1	AF	DS		C	Gear		ｷﾞｬ
29	CSFTZ2553FC01	AN	EG		C	Lift shaft unit		ﾘﾌﾄｼｬﾌﾄﾕﾆｯﾄ
30	NBRGP0626FCZZ	AC	DJ		C	Bearing(M8)		軸受け
31	XRESP70－08000	AA	DD		C	E type ring		E- ﾘﾝｸﾞ
32	TLABZ4238FCZZ	AD	DJ		C	Size display label	(Japan only)	ｻｲｽﾞ表示ﾗﾍﾞﾙ
	TLABZ4239FCZZ	AD	DJ		C	Size display label	(Except Japan)[AB Series]	ｻｲｽﾞ表示ﾗﾍﾞﾙ
	TLABZ4240FCZZ	AD	DJ		C	Size display label	(Except Japan)[Inch Series]	ｻｲｽﾞ表示ﾗﾍﾞﾙ
33	MSPRC2669FCZZ	AB	DJ		C	Tray right earth spring		ｶｾｯﾄ右ｱｰｽｽﾌﾟﾘﾝｸﾞ
34	LPLTM5416FCZZ	AH	DX		C	Tray reinforce plate right		ｶｾｯﾄ補強右ﾌﾟﾚｰﾄ
36	LHLDZ1377FCZZ	AD	DJ		C	Rear plate holder		後端ﾌﾟﾚｰﾄﾎﾙﾀﾞｰ
37	LX－BZ0531FCZZ	AA	DD		C	Screw(4×8)		ﾋﾞｽ
39	GCASP0173FCZ2	BA	FX		C	550 sheets casette		550 枚ｶｾｯﾄ
40	LHLDW1226FCZZ	AB	DJ		C	Turn fastener		ﾀｰﾝﾌｧｽﾅｰ
	(Unit)							
901	CCASP0173FC15	BG	GT		E	Casette unit	(Japan only)	ｶｾｯﾄﾕﾆｯﾄ
	CCASP0173FC16	BG	GT		E	Casette unit	(Except Japan)[AB Series]	ｶｾｯﾄﾕﾆｯﾄ
	CCASP0173FC17	BF	GN		E	Casette unit	(Except Japan)[Inch Series]	ｶｾｯﾄﾕﾆｯﾄ

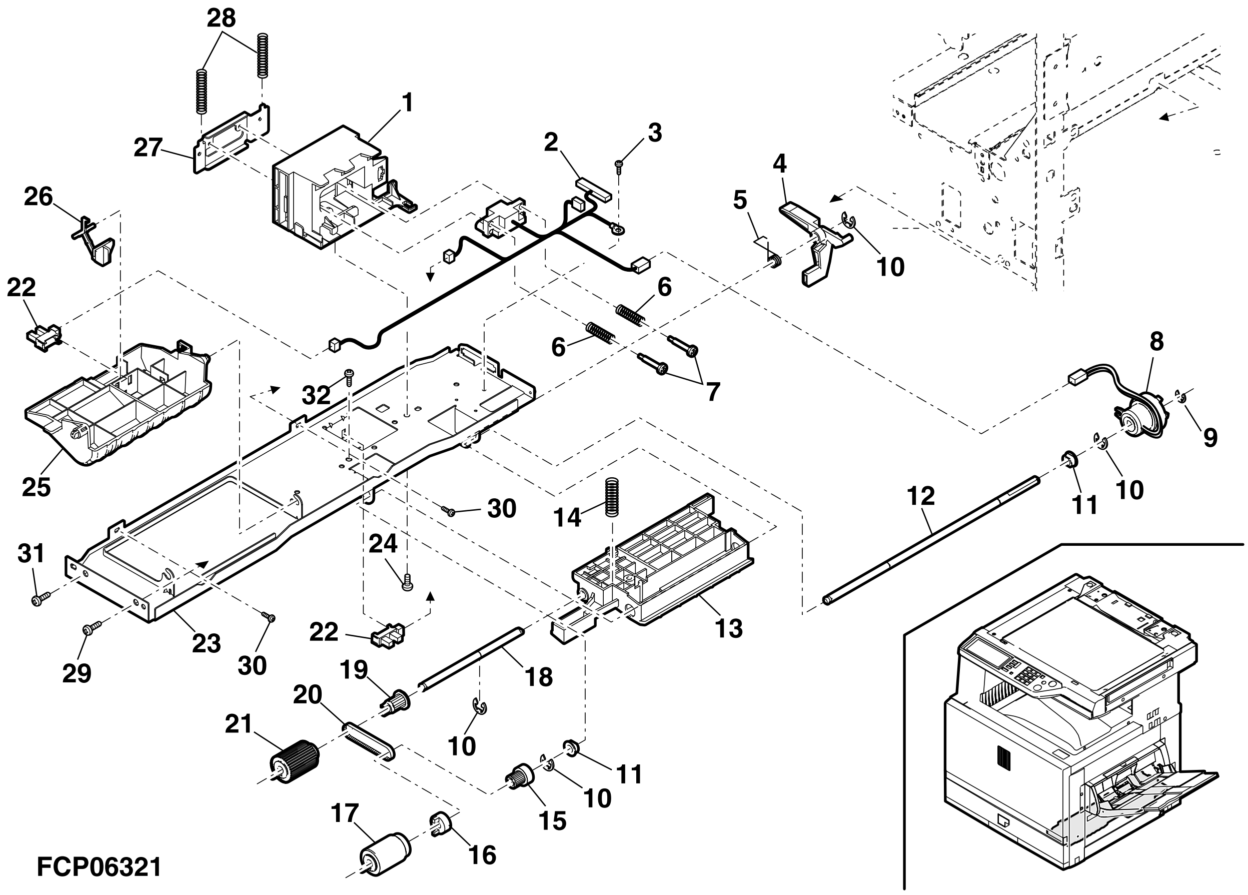
10 ｶｾｯﾄﾕﾆｯﾄ (Casette unit)



11 給紙ﾕﾆｯﾄ (Paper feed unit)

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION	
		Ex.	Ja.				
1	PCASZ0299FCZZ	AF	DS	N	C	Belt connector case	ﾍﾞﾙﾄｺﾈｸﾀｹ-ｽ
2	DHAi-3339FC11	AV	FG	N	C	Paper feed harness	給紙ﾊｰﾈｽ
3	XHBSE30P06000	AA	DD		C	Screw(3×6)	ﾋﾞｽ
4	MARMP0293FCZ1	AL	EB	N	C	Pick-up roller arm	呼込みﾛｰﾗｱｰﾑ
5	MSPRD3084FCZZ	AD	DJ	N	C	Pick up roller arm spring	呼込みﾛｰﾗｰｱｰﾑｽﾌﾟﾘﾝｸﾞ
6	MSPRC3074FCZZ	AC	DJ	N	C	Connector slide spring	ｺﾈｸﾀｽﾗｲﾄﾞｽﾌﾟﾘﾝｸﾞ
7	LX-BZ0850FCZZ	AC	DD		C	Screw	ﾋﾞｽ
8	PCLC-0321FCZZ	AT	EZ	N	B	PF clutch W	PF ｸﾗｯﾁ W
9	XRESP40-06000	AA	DD		C	E type ring	E- ﾘﾝｸﾞ
10	XRESP50-06000	AA	DD		C	E type ring	E- ﾘﾝｸﾞ
11	NBRGC0387FCZ1	AC	DJ		C	Bearing	軸受け
12	NSFTZ2700FCZZ	AQ	EQ	N	C	Paper feed roller shaft	給紙ﾛｰﾗｼｬﾌﾄ
13	PGiDM1981FCZZ	AH	DX	N	C	Pick-up roller guide	呼込みﾛｰﾗｶﾞｲﾄﾞ
14	MSPRC3169FCZZ	AC	DJ	N	C	Pick-up spring	呼込みｽﾌﾟﾘﾝｸﾞ
15	NPLYZ0409FCZZ	AL	EB	N	C	Paper feed roller pulley	給紙ﾛ - ﾗﾌﾟｰﾘｰ
16	NCPL-0049FCBZ	AT	EZ		C	MF separator cupling	ﾏﾙﾁ分離ｶｯﾌﾟﾘﾝｸﾞ
17	NROLR1411FCZZ	AK	EB	N	B	Paper feed separater roller	給紙分離ﾛ - ﾗ
18	NSFTZ2591FCZZ	AF	DS		C	Pick-up roller shaft	呼込みﾛｰﾗｼｬﾌﾄ
19	NPLYZ0365FCZZ	AC	DJ		C	Pick-up roller pulley	呼込みﾛｰﾗﾌﾟｰﾘｰ
20	NBLTH0239FCZZ	AF	DX		C	Belt(55MXL3.2)	ﾍﾞﾙﾄ
21	NROLR1428FCZZ	AK	DX	N	B	Pick-up roller	呼込みﾛ - ﾗ
22	VHPGP1A71L3-1	AG	DS	N	B	Photo sensor(GP1A71L3)	ﾌｫﾄｾﾝｻｰ
23	CFRM-1081FC01	AU	FG	N	C	Paper feed frame	給紙ﾌﾚｰﾑ
24	XEBSD40P08000	AA	DD		C	Screw(4×8)	ﾋﾞｽ
25	PGiDM1983FCZZ	AS	EQ	N	C	PF upper front PG	給紙上前ﾍﾟｰﾊﾟｰｶﾞｲﾄﾞ
26	MLEVP0695FCZZ	AC	DJ		C	H Paper feeding lever	H 給紙ﾚﾊﾞ -
27	LHLDZ1517FCZZ	AE	DS	N	C	Belt connector holder	ﾍﾞﾙﾄｺﾈｸﾀｰﾎﾙﾀﾞｰ
28	MSPRC3073FCZZ	AC	DJ	N	C	Belt connector spring	ﾍﾞﾙﾄｺﾈｸﾀｽﾌﾟﾘﾝｸﾞ
29	XHBSE40P08000	AA	DD		C	Screw(4×8)	ﾋﾞｽ
30	XHBSE30P08000	AA	DD		C	Screw(3×8)	ﾋﾞｽ
31	XEBSD40P08000	AA	DD		C	Screw(4×8)	ﾋﾞｽ
32	XHBSE40P08000	AA	DD		C	Screw(4×8)	ﾋﾞｽ
						(Unit)	
901	CFRM-1081DS51	BK	HG	N	E	Paper feed unit(Without No.29,30,31)	給紙ﾕﾆｯﾄ(No.29,30,31 除く)

11 給紙ﾕﾆｯﾄ (Paper feed unit)



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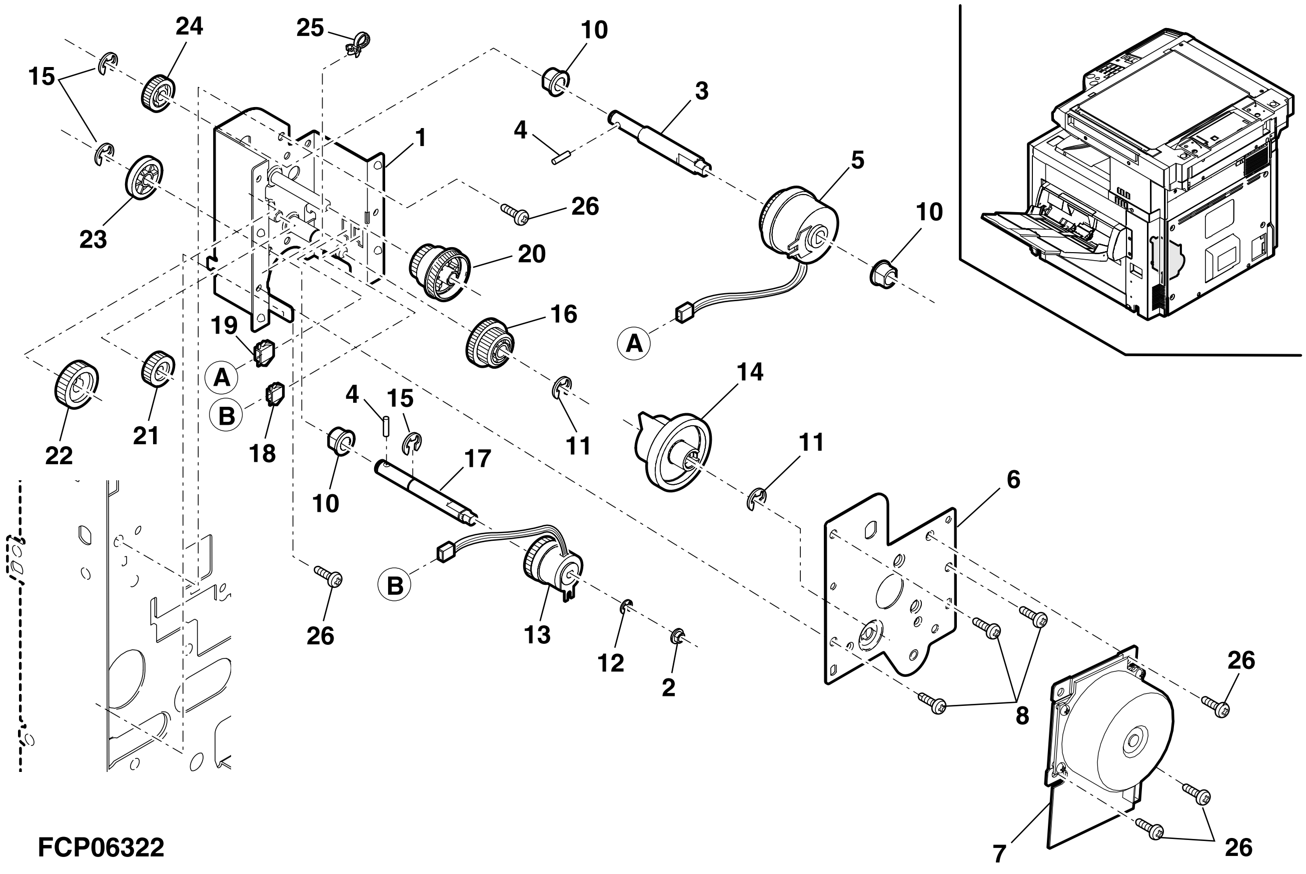
12 給紙駆動ﾕﾆｯﾄ (Paper feeding drive unit)

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION	
		Ex.	Ja.				
1	CFRM−1063FC01	AU	EZ	N	C	Paper feeding drive frame	給紙駆動ﾌﾚｰﾑ
2	NBRGY2122SCZZ	AB	DD		C	Bearing	ﾍﾞｱﾘﾝｸﾞ
3	NSFTZ2688FCZZ	AL	EB	N	C	Multi output shaft	ﾏﾙﾁ出力ｼｬﾌﾄ
4	LPiNS0133FCZZ	AA	DD		C	Pin(ϕ2-10)	ﾍｲｺｳﾋﾟﾝ
5	PCLC−0297FCZZ	AU	FG		B	PS front clutch	PS 前ｸﾗｯﾁ
6	CPLTM5983FC01	AL	EB	N	C	Paper feed motor fixing plate	給紙ﾓｰﾀﾌﾟﾚｰﾄ
7	RMŌTP0891FCZZ	BG	GT	N	B	Paper feed motor	給紙ﾓｰﾀ
8	XHBSE40P08000	AA	DD		C	Screw(4×8)	ﾋﾞｽ
10	NBRGC0651FCZZ	AD	DJ		C	Bearing	軸受け
11	XRESP70−08000	AA	DD		C	E type ring	E- ﾘﾝｸﾞ
12	XRESP40−06000	AA	DD		C	E type ring	E- ﾘﾝｸﾞ
13	PCLC−0298FCZZ	AT	EZ		B	Paper feed clutch	給紙ｸﾗｯﾁ
14	NGERH1497FCZZ	AE	DS	N	B	PF gear(37T)	給紙出力ｷﾞｬ
15	XRESP50−06000	AA	DD		C	E type ring	E- ﾘﾝｸﾞ
16	NGERH1252FCZZ	AD	DJ		C	Delivery change gear(21T)	排紙変速ｷﾞｬ
17	NSFTZ2687FCZZ	AK	EB	N	C	Transfer output shaft	搬送出力ｼｬﾌﾄ
18	QCNCM0999FCZZ	AC	DJ		C	Connector(BU02P-TR-PH)	ｺﾈｸﾀｰ
19	QCNCM1000FCZZ	AC	DJ		C	Connector(BU3P-TR-P-H)	ｺﾈｸﾀｰ
20	NGERH1496FCZZ	AE	DJ	N	C	PF reduction gear(65T)	給紙減速ｷﾞｬ
21	NGERH0111FCWZ	AD	DJ		C	Idle gear(24T)	ｱｲﾄﾞﾙｷﾞｬ
22	NGERH0867FCZZ	AC	DD		C	Delivery gear(20T)	排紙伝達ｷﾞｬ
23	NGERH0866FCZZ	AC	DD		B	Gear(22T)	ｷﾞｬ
24	NGERH1510FCZZ	AD	DJ	N	B	PS drive gear(20T)	PS 駆動ｷﾞｬ
25	LBNDJ0043FCZ1	AA	DJ		C	Band(SG-130)	ﾊﾞﾝﾄﾞ
26	XHBSE40P08000	AA	DD		C	Screw(4×8)	ﾋﾞｽ
	(Unit)						
901	CFRM−1063DS51	BF	GN	N	E	Paper feeding drive unit(Without No.7,26)	給紙駆動ﾕﾆｯﾄ(No.7,26 除く)

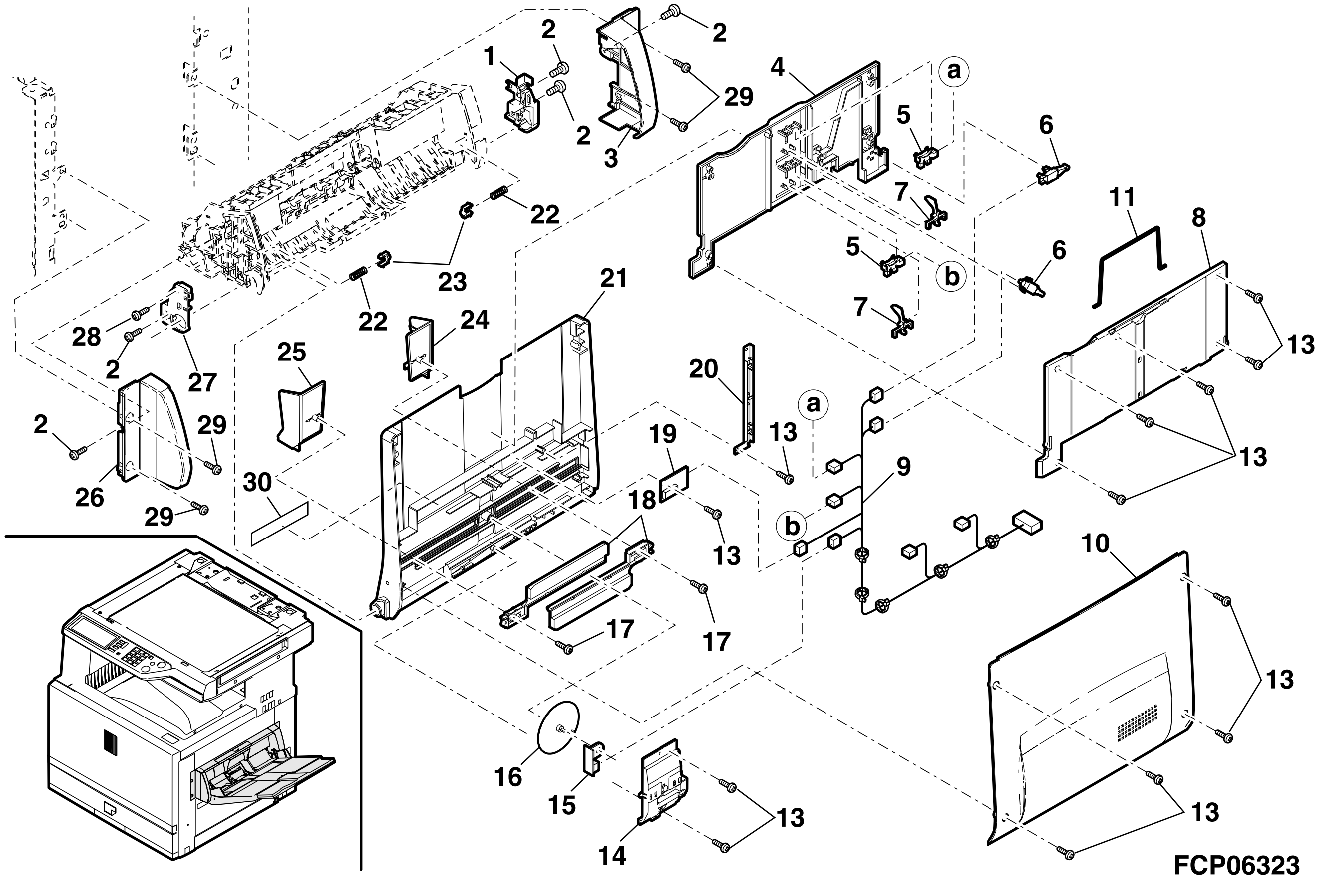
12 給紙駆動ﾕﾆｯﾄ (Paper feeding drive unit)



13 ﾏﾙﾁ手差しﾕﾆｯﾄ 1(Multi manual paper feeding unit 1)

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION
		Ex.	Ja.			
1	LHLDZ1524FCZZ	AK	DX	N	C	Tray fulcrum holder R ﾄﾚｲ支点ﾎﾙﾀﾞ－R
2	XEBSE40P10000	AA	DD		C	Screw(4×10) ﾋﾞｽ
3	PCŌVP1653FCZZ	AN	EQ	N	C	MF rear cover 250 手差し後ｶﾊﾞ－250
4	LSŌU-0026QSCZ	BA	FX	N	C	Multi paper feed tray 2 upper 手差しﾄﾚｲ２ 上
5	VHPGP1A71L3-1	AG	DS	N	B	Photo sensor(GP1A71L3) ﾌｫﾄｾﾝｻｰ
6	QSW-B0017QSZZ	AF	DS	N	B	Tray detect switch ｶｾｯﾄ検知ｽｲｯﾁ
7	MLEVP0035QSE1	AC	DJ		C	Original detect actuator 原稿検知ｱｸﾁｪｰﾀｰ
8	LSŌU-0193FCZ5	AN	EQ	N	C	Slide tray L (100V Series) ｽﾗｲﾄﾞﾄﾚｲ L
	LSŌU-0193FCZZ	AP	EQ	N	C	Slide tray L (200V Series) ｽﾗｲﾄﾞﾄﾚｲ L
9	DHAi-3359FC11	AQ	EQ	N	C	MF tray harness 手差しﾄﾚｲﾊｰﾈｽ
10	LSŌU-0190FCZ5	AV	FG	N	C	Multi paper feed tray 250 lower (100V Series) ﾏﾙﾁﾄﾚｲ 250 下
	LSŌU-0190FCZZ	AT	EZ	N	C	Multi paper feed tray 250 lower (200V Series) ﾏﾙﾁﾄﾚｲ 250 下
11	PGiDW2015FCZZ	AG	DS	N	C	Support guide 補助ｶﾞｲﾄﾞ
13	XEBSE30P08000	AA	DD		C	Screw(3×8) ﾋﾞｽ
14	LPLTP6020FCZZ	AF	DS	N	C	Widtch detector fixing plate 幅検知取付けﾌﾟﾚｰﾄ
15	CPWBF0106RS51	AP	EQ		E	Multi paper feed VR PWB ﾃｻｼ VR 基板ﾕﾆｯﾄ
16	NGERP1385FCZZ	AF	DS		C	Width detect pinion gear 幅検知ﾋﾟﾆｵﾝｷﾞﾔ
17	XEPSD30P06X00	AA	DD		C	Screw(3×6X) ﾋﾞｽ
18	NGERR1386FCZZ	AE	DJ		C	Width detect rack gear 幅検知ﾗｯｸｷﾞﾔ
19	RDTCH0155FCZZ	AU	EZ	N	B	Hygrometer sensor 湿度ｾﾝｻ-ﾕﾆｯﾄ
20	LHLDZ1521FCZZ	AE	DJ	N	C	Haness holder ﾊｰﾈｽﾎﾙﾀﾞｰ
21	LSŌU-0189FCZ5	AT	EZ	N	C	Multi paper feed tray 250 upper (100V Series) ﾏﾙﾁﾄﾚｲ 250 上
	LSŌU-0189FCZZ	AU	EZ	N	C	Multi paper feed tray 250 upper (200V Series) ﾏﾙﾁﾄﾚｲ 250 上
22	MSPRC2114FCZZ	AB	DJ		C	Lock spring ﾛｯｸｽﾌﾟﾘﾝｸﾞ
23	PTME-0271FCZZ	AD	DJ		C	Tray lock pawl ﾄﾚｲﾛｯｸ爪
24	PGiDM1987FCZZ	AG	DS	N	C	Size guide 250R ｻｲｽﾞｶﾞｲﾄﾞ 250R
25	PGiDM1986FCZZ	AF	DS	N	C	Size guide 250F ｻｲｽﾞｶﾞｲﾄﾞ 250F
26	PCŌVP1652FCZZ	AN	EG	N	C	MF front cover 250 手差し前ｶﾊﾞ－250
27	LHLDZ1523FCZZ	AH	DX	N	C	Tray fulcrum holder F ﾄﾚｲ支点ﾎﾙﾀﾞ－F
28	XEBSD30P06000	AA	DD		C	Screw(3×6) ﾋﾞｽ
29	XHBSE40P08000	AA	DD		C	Screw(4×8) ﾋﾞｽ
30	TLABZ4759FCZZ	AH	DX	N	C	MF size label (Japan only) ﾃｻｼｻｲｽﾞﾗﾍﾞﾙ
	(Unit)					
901	DUNT-7187DSZZ	BV	RB	N	E	Multi paper feed unit(Include Block 14,15 Without No.29,30) (100V Series) ﾏﾙﾁ給紙ﾕﾆｯﾄ（ﾌﾞﾛｯｸ 14,15 含む。No.29,30 含まない）
	DUNT-7187DS11	BV	RB	N	E	Multi paper feed unit(Include Block 14,15 Without No.29,30) (200V Series) ﾏﾙﾁ給紙ﾕﾆｯﾄ（ﾌﾞﾛｯｸ 14,15 含む。No.29,30 含まない）

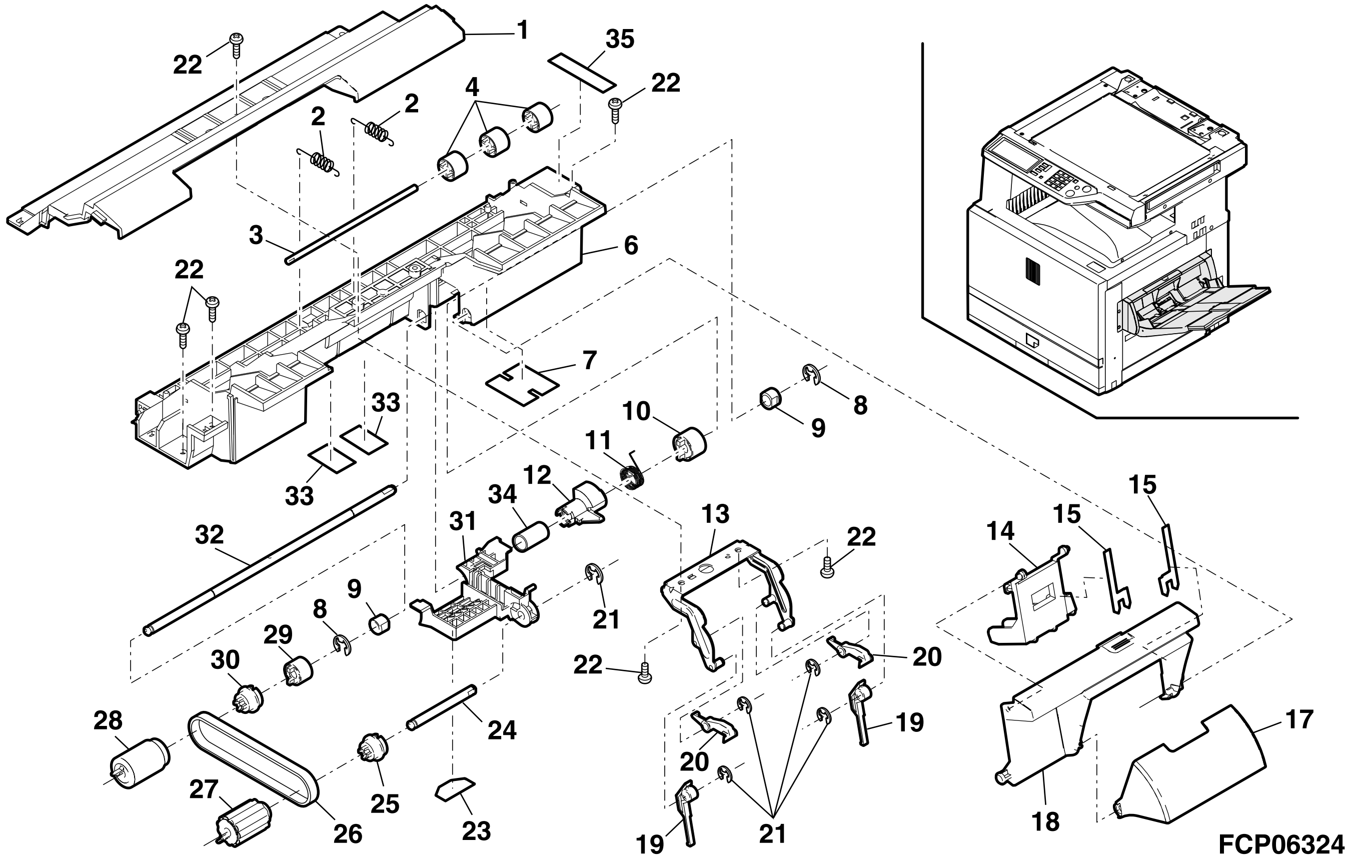
13 ﾏﾙﾁ手差しﾕﾆｯﾄ 1(Multi manual paper feeding unit 1)



⑭ ﾏﾙﾁ手差しﾕﾆｯﾄ 2(Multi manual paper feeding unit 2)

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION
		Ex.	Ja.			
1	PCŌVP1639FCZ5	AR	EQ	N	C	MF upper cover (100V Series) 手差し上ｶﾊﾞｰ
	PCŌVP1639FCZZ	AQ	EQ	N	C	MF upper cover (200V Series) 手差し上ｶﾊﾞｰ
2	MSPRT3121FCZ1	AC	DJ	N	C	Roller pressure spring ﾛｰﾗｰ加圧ｽﾌﾟﾘﾝｸﾞ
3	NSFTZ2707FCZZ	AH	DX	N	C	PS front follow roller shaft PS 前従動ﾛｰﾗｼｬﾌﾄ
4	NRŌLP1060FCZZ	AF	DS		C	U-turn roller U ﾀｰﾝﾛｰﾗ
6	PGiDM1974FCZ5	AV	FG	N	C	MF upper PG (100V Series) 手差し上ﾍﾟｰﾊﾟｰｶﾞｲﾄﾞ
	PGiDM1974FCZ1	AV	FG	N	C	MF upper PG (200V Series) 手差し上ﾍﾟｰﾊﾟｰｶﾞｲﾄﾞ
7	PSHEP5037FCZZ	AC	DJ	N	C	Upper PG sheet 上 PG ｼｰﾄ
8	XRESP50−06000	AA	DD		C	E type ring E-ﾘﾝｸﾞ
9	NBRGM0096FCZ1	AC	DJ		C	Bearing 軸受け
10	PCLC−0317FCZZ	AR	EQ	N	B	Pick-up start limiter 呼込み起動ﾘﾐｯﾀｰ
11	MSPRD3100FCZZ	AC	DJ	N	C	Stopper arm spring ｽﾄｯﾊﾟｰｱｰﾑｽﾌﾟﾘﾝｸﾞ
12	MLNKP0027FCZZ	AE	DJ	N	C	Pick-up link 呼込みﾘﾝｸ
13	CPLTM6071FC01	AK	DX	N	C	Stopper support plate ｽﾄｯﾊﾟｰ支持ﾌﾟﾚｰﾄ
14	PGiDM1985FCZZ	AF	DS	N	C	Support PG 補助ﾍﾟｰﾊﾟｰｶﾞｲﾄﾞ
15	PSHEP5071FCZZ	AB	DJ	N	C	Paper guide sheet 用紙ｶﾞｲﾄﾞｼｰﾄ
17	PCŌVP1658FCZ1	AG	DX	N	C	Connected cover 連動ｶﾊﾞｰ
18	PCŌVP1642FCZ1	AL	EB	N	C	Arm cover 250 ｱｰﾑｶﾊﾞｰ 250
19	LSTPP0366FCZZ	AD	DJ	N	C	Stopper ｽﾄｯﾊﾟｰ
20	MLEVP0871FCZZ	AD	DJ	N	C	Stopper release lever ｽﾄｯﾊﾟ解除ﾚﾊﾞｰ
21	XRESP40−06000	AA	DD		C	E type ring E-ﾘﾝｸﾞ
22	XEBSE40P10000	AA	DD		C	Screw(4×10) ﾋﾞｽ
23	PSHEP5022FCZZ	AC	DJ	N	C	Pick-up guide sheet 呼込みｶﾞｲﾄﾞｼｰﾄ
24	NSFTZ2701FCZZ	AK	DX	N	C	Pick-up roller shaft 呼込みﾛｰﾗｼｬﾌﾄ
25	NPLYZ0398FCZZ	AC	DJ		C	Pick-up roller pulley(22T) 呼込みﾛｰﾗﾌﾟｰﾘｰ
26	NBLTT7029XCZZ	AG	DS		C	Drive belt 駆動ﾍﾞﾙﾄ
27	NRŌLR1428FCZZ	AK	DX	N	B	Pick-up roller 呼込みﾛｰﾗ
28	NRŌLR1311FCZZ	AN	EG		B	Paper feed separator roller 給紙分離ﾛｰﾗ
29	NCPL−0049FCZZ	AH	DX		C	One-way cupling ﾜﾝｳｪｲｶｯﾌﾟﾘﾝｸﾞ
30	NPLYZ0404FCZZ	AE	DJ	N	C	MF drive pulley 手差し駆動ﾌﾟｰﾘｰ
31	MARMP0294FCZ1	AM	EG	N	C	Pick-up arm 250 呼込みｱｰﾑ 250
32	CSFTZ2698DS51	AQ	EQ	N	E	Multi paper feed roller shaft 手差し給紙ﾛｰﾗｰｼｬﾌﾄ
33	PSHEP5086FCZZ	AB	DJ	N	C	Wave prevention sheet 波打防止ｼｰﾄ
34	NBRGC0280FCZZ	AB	DD		C	Bearing 軸受け
35	PSHEP5119FCZZ	AB	DJ		C	Harness guide sheet ﾊｰﾈｽｶﾞｲﾄﾞｼｰﾄ
	(Unit)					
901	DUNT−7187DSZZ	BV	RB	N	E	Multi paper feed unit(Include Block 13,15) (100V Series) ﾏﾙﾁ給紙ﾕﾆｯﾄ(ﾌﾞﾛｯｸ 13,15 含む)
	DUNT−7187DS11	BV	RB	N	E	Multi paper feed unit(Include Block 13,15) (200V Series) ﾏﾙﾁ給紙ﾕﾆｯﾄ(ﾌﾞﾛｯｸ 13,15 含む)

⑭ ﾏﾙﾁ手差しﾕﾆｯﾄ 2(Multi manual paper feeding unit 2)



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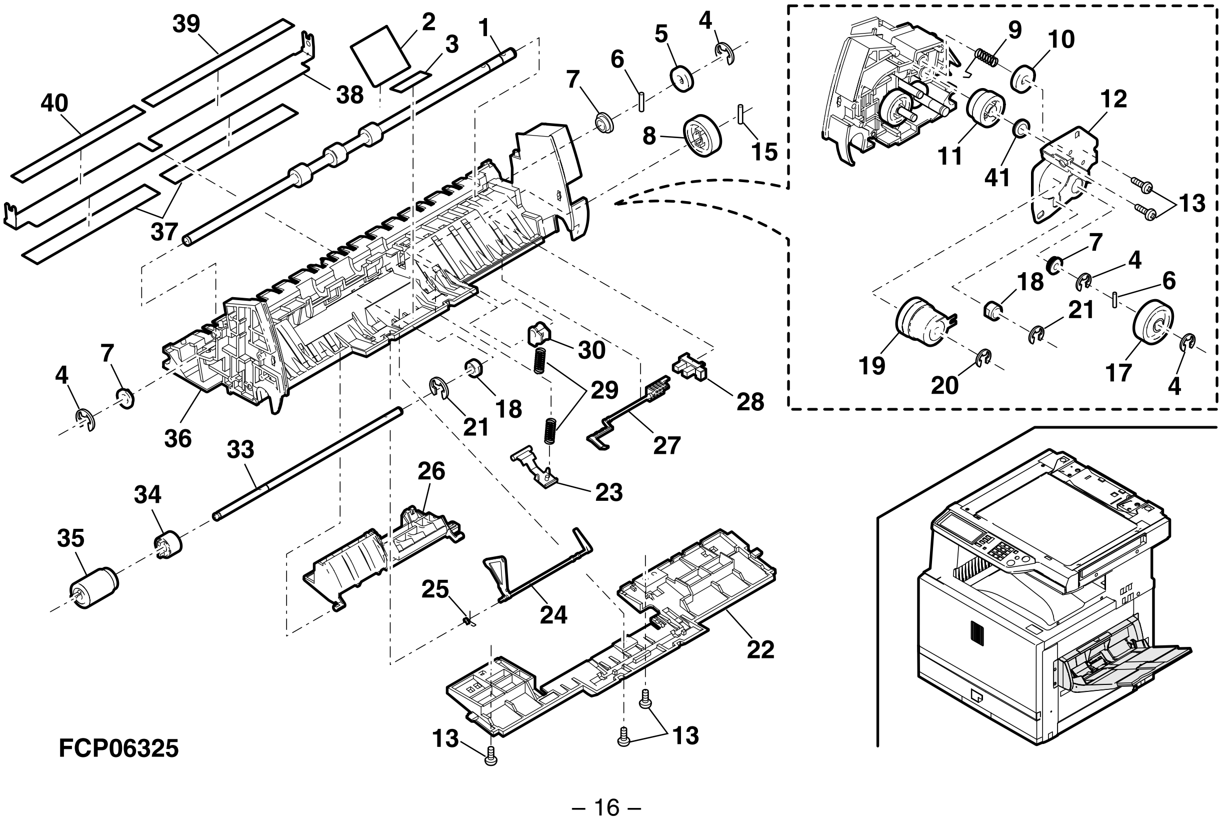
15 ﾏﾙﾁ手差しﾕﾆｯﾄ 3(Multi manual paper feeding unit 3)

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION		
		Ex.	Ja.					
1	NRŌLR1400FCZZ	AS	EZ	N	C	PS front roller		PS 前ﾛ - ﾗ
2	PSHEP4971FCZZ	AC	DJ	N	C	PF guide sheet mylar		給紙ｶﾞｲﾄﾞﾏｲﾗｰ
3	PSHEZ4788FCZ1	AD	DJ		C	Manual feed sheet BE		手差しｼｰﾄ BE
4	XRESP70-08000	AA	DD		C	E type ring		E- ﾘﾝｸﾞ
5	NGERH0317FCZZ	AC	DJ		C	DV gear(18T)		DV ｷﾞﾔ
6	LPiNS0155FCZZ	AA	DD		C	Pin(ϕ3-10)		ﾍｲｺｳﾋﾟﾝ
7	NBRGC0504FCZZ	AC	DJ		C	Bearing		軸受け
8	NGERH1526FCZZ	AE	DJ	N	C	Reverse drive gear		逆転駆動ｷﾞﾔ
9	MSPRC3122FCZZ	AD	DJ	N	C	Shaft earth spring		ｼｬﾌﾄｱｰｽｽﾌﾟﾘﾝｸﾞ
10	NGERH1536FCZZ	AC	DJ	N	C	Idle gear(18T)		ｱｲﾄﾞﾙｷﾞﾔ
11	NGERH1511FCZZ	AE	DJ	N	C	Idle gear(21/24)		ｱｲﾄﾞﾙｷﾞﾔ
12	CFRM-1075FC01	AN	EG	N	C	Malti paper feed drive frame		手差し駆動ﾌﾚｰﾑ
13	XEBSE40P10000	AA	DD		C	Screw(4×10)		ﾋﾞｽ
15	LPiNS0133FCZZ	AA	DD		C	Pin(ϕ2-10)		ﾍｲｺｳﾋﾟﾝ
17	NGERH1383FCZZ	AD	DJ		C	Fusing drive gear(30T)		定着駆動ｷﾞﾔ
18	NBRGM0096FCZ1	AC	DJ		C	Bearing		軸受け
19	PCLC-0298FCZZ	AT	EZ		B	Paper feed clutch		給紙ｸﾗｯﾁ
20	XRESP40-06000	AA	DD		C	E type ring		E- ﾘﾝｸﾞ
21	XRESP50-06000	AA	DD		C	E type ring		E- ﾘﾝｸﾞ
22	PCŌVP1640FCZ5	AL	EB	N	C	MF lower cover	(100V Series)	手差し下ｶﾊﾞｰ
	PCŌVP1640FCZ1	AN	EQ	N	C	MF lower cover	(200V Series)	手差し下ｶﾊﾞｰ
23	MARMP0295FCZZ	AF	DS	N	C	Separator roller release arm		分離ﾛｰﾗ解除ｱｰﾑ
24	MLEVP0852FCZZ	AG	DS	N	C	PE actuator 250		PE ｱｸﾁｭｴ - ﾀ 250
25	MSPRD3099FCZ1	AC	DJ	N	C	RE actuator spring		RE ｱｸﾁｴ - ﾀｽﾌﾟﾘﾝｸﾞ
26	PCŌVP1641FCZZ	AG	DS	N	C	Maintenace cover		ﾒﾝﾃﾅﾝｽｶﾊﾞｰ
27	MLNKP0029FCZZ	AD	DJ	N	C	RE actuator link		RE ｱｸﾁｭｴｰﾀﾘﾝｸ
28	VHPGP1A71L3-1	AG	DS	N	B	Photo sensor(GP1A71L3)		ﾌｫﾄｾﾝｻｰ
29	MSPRC3066FCZZ	AC	DJ	N	C	Separater roller spring		分離ﾛｰﾗｽﾌﾟﾘﾝｸﾞ
30	LHLDZ1520FCZZ	AC	DJ	N	C	Separate roller shaft holder		分離ﾛｰﾗｰ軸ﾎﾙﾀﾞｰ
33	CSFTZ2702DS51	AP	EQ	N	E	Multi paper feed roller separate shaft		手差し分離ﾛｰﾗｰｼｬﾌﾄ
34	PCLC-0316FCZ1	AR	EQ	N	B	Sparater roller torque limiter		分離ﾛｰﾗﾄﾙｸﾘﾐｯﾀｰ
35	NRŌLR1311FCZZ	AN	EG		B	Paper feed separator roller		給紙分離ﾛ - ﾗ
36	PGiDM1973FCZ5	AS	EQ	N	C	MF lower PG 250	(100V Series)	手差し下ﾍﾟｰﾊﾟｰｶﾞｲﾄﾞ 250
	PGiDM1973FCZZ	AU	EZ	N	C	MF lower PG 250	(200V Series)	手差し下ﾍﾟｰﾊﾟｰｶﾞｲﾄﾞ 250
37	PSHEZ5088FCZZ	AF	DS		C	Guide sheet		ｶﾞｲﾄﾞｼｰﾄ
38	LSTYM0295FCZZ	AL	EB	N	C	Multi paper feed PG stay		手差し上 PG ｽﾃｰ
39	PSHEP4970FCZ2	AE	DS	N	C	PS front guide mylar		PS 前ｶﾞｲﾄﾞﾏｲﾗｰ
40	PSHEP4993FCZ2	AE	DS	N	C	PS front guide sheet B		PS 前ｶﾞｲﾄﾞｼ - ﾄ B
41	LX-WZ2011SCZZ	AA	DD		C	Washer		ﾎﾟﾘｽﾗｲﾀﾞｰ
	(Unit)							
901	DUNT-7187DSZZ	BV	RB	N	E	Multi paper feed unit(Include Block 13,14) ﾏﾙﾁ給紙ﾕﾆｯﾄ (ﾌﾞﾛｯｸ 13,14 含む)		(100V Series)
	DUNT-7187DS11	BV	RB	N	E	Multi paper feed unit(Include Block 13,14) ﾏﾙﾁ給紙ﾕﾆｯﾄ (ﾌﾞﾛｯｸ 13,14 含む)		(200V Series)

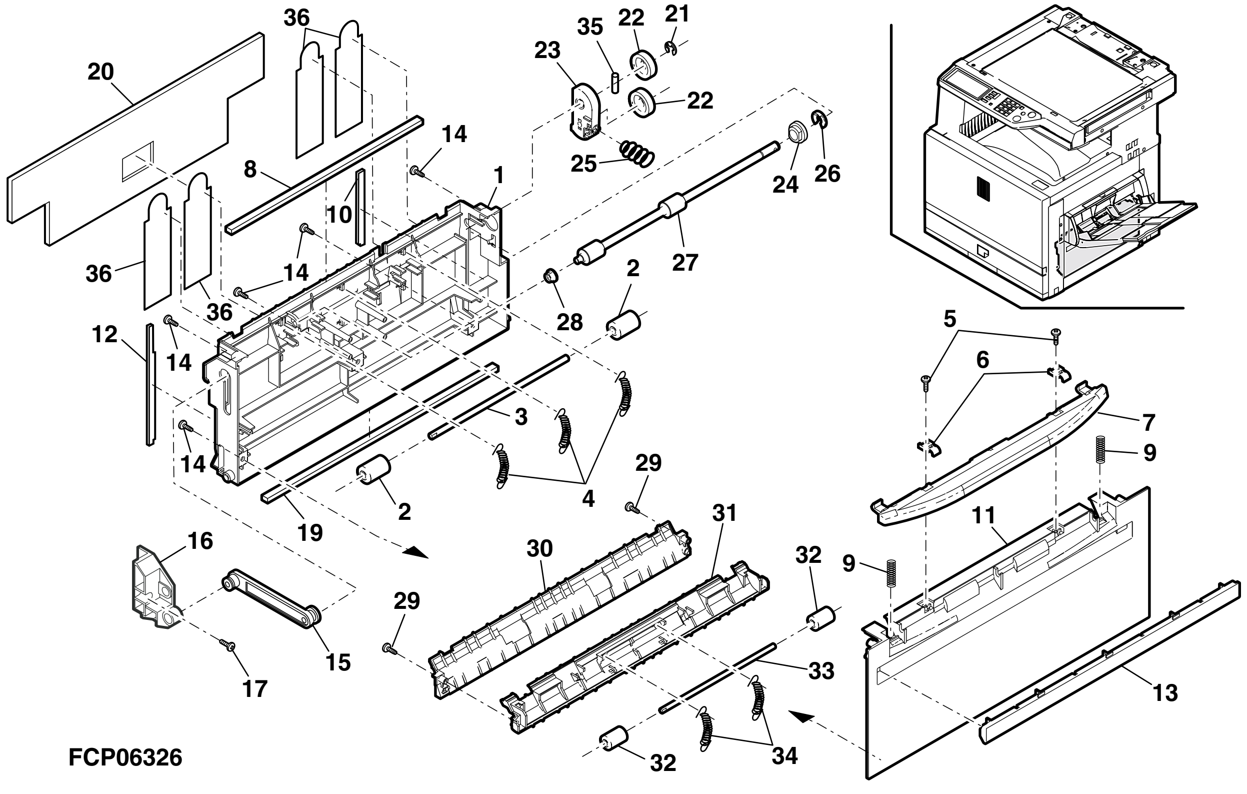
15 ﾏﾙﾁ手差しﾕﾆｯﾄ 3(Multi manual paper feeding unit 3)



16 縦搬送ｶﾞｲﾄﾞﾕﾆｯﾄ (Vertical transport guide unit)

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION
		Ex.	Ja.			
1	PGiDM1977FCZZ	AN	EG	N	C	Vertical transfer guide R 縦搬送ｶﾞｲﾄﾞ右
2	NRŌLP0896FCZZ	AC	DD		C	Transport sub roller 搬送従動ﾛｰﾗ
3	NSFTZ2704FCZZ	AL	EB	N	C	Vertical transfer follow shaft 縦搬送従動ｼｬﾌﾄ
4	MSPRT3094FCZ1	AC	DJ	N	C	Transfer spring 1 搬送ｽﾌﾟﾘﾝｸﾞ 1
5	XEBSE30P08000	AA	DD		C	Screw(3×8) ﾋﾞｽ
6	LPLTP6019FCZZ	AD	DJ	N	C	Release fulcrum plate 解除支点ﾌﾟﾚｰﾄ
7	MLEVP0853FCZ1	AF	DS	N	C	Guide lock release lever GID ﾛｯｸ解除ﾚﾊﾞｰ
8	PMLT-1305FCZZ	AC	DJ	N	C	Right door cushion upper 右ﾄﾞｱﾓﾙﾄｳｴ
9	MSPRD3093FCZ1	AC	DJ	N	C	Look release spring ﾛｯｸ解除ｽﾌﾟﾘﾝｸﾞ
10	PMLT-1304FCZZ	AC	DJ	N	C	Right door cushion FR 右ﾄﾞｱﾓﾙﾄ FR
11	GCAB-0983FCZ5	AQ	EQ	N	C	Right door cabinet (100V Series) 右ﾄﾞｱｷｬﾋﾞ
	GCAB-0983FCZZ	AS	EQ	N	C	Right door cabinet (200V Series) 右ﾄﾞｱｷｬﾋﾞ
12	PMLT-1313FCZZ	AC	DJ	N	C	Right door cushion R 右ﾄﾞｱﾓﾙﾄ R
13	PCŌVP1707FCZZ	AG	DX	N	D	LCC cover N LCC ｶﾊﾞｰ N
14	XEBSE40P08000	AA	DD		C	Screw(4×8) ﾋﾞｽ
15	LSTPP0275FCZZ	AE	DS		C	Stopper ｽﾄｯﾊﾟｰ
16	LHLDZ1514FCZZ	AK	DX	N	C	Right door fulcrum holder F 右ﾄﾞｱ支点ﾎﾙﾀﾞｰF
17	XHBSE40P12000	AA	DD		C	Screw(4×12) ﾋﾞｽ
19	PMLT-1303FCZ1	AD	DJ	N	C	Right door cushion lower 右ﾄﾞｱﾓﾙﾄ下
20	PMLT-1317FCZZ	AH	DX	N	C	Right door cushion middle 右ﾄﾞｱﾓﾙﾄ中
21	XRESP70-08000	AA	DD		C	E type ring (Except Japan) E-ﾘﾝｸﾞ
22	NGERH0111FCWZ	AD	DJ		C	Idle gear(24T) (Except Japan) ｱｲﾄﾞﾙｷﾞﾔ
23	MARMP0297FCZZ	AB	DJ	N	C	LCC transport roller gear arm (Except Japan) LCC 搬送ﾛｰﾗｷﾞｱｱｰﾑ
24	NBRGP0626FCZZ	AC	DJ		C	Bearing(M8) (Except Japan) 軸受け
25	MSPRC2616FCZZ	AC	DJ		C	DV drive spring (Except Japan) DV ﾄﾞﾗｲﾌﾞｽﾌﾟﾘﾝｸﾞ
26	LSTPP0274FCZZ	AA	DD		C	Stopper (Except Japan) ｽﾄｯﾊﾟｰ
27	NRŌLR1406FCZZ	AM	EG	N	C	LCC transport roller (Except Japan) LCC 搬送ﾛｰﾗ
28	NBRGC0188FCZZ	AB	DD		C	Bearing (Except Japan) 軸受け
29	XEBSE30P08000	AA	DD		C	Screw(3×8) (Except Japan) ﾋﾞｽ
30	PGiDM1990FCZZ	AH	DX	N	C	LCC transport guide L (Except Japan) LCC 搬送ｶﾞｲﾄﾞ L
31	PGiDM1989FCZZ	AH	DX	N	C	LCC transport guide R (Except Japan) LCC 搬送ｶﾞｲﾄﾞ R
32	PCLR-0442FCZZ	AD	DJ		C	Sub collar (Except Japan) 補助ｺﾛ
33	NSFTZ2703FCZZ	AF	DS	N	C	LCC transport sub shaft (Except Japan) LCC 搬送従動ｼｬﾌﾄ
34	MSPRT3092FCZZ	AC	DJ	N	C	LCC transport spring (Except Japan) LCC 搬送ｽﾌﾟﾘﾝｸﾞ
35	LPiNS0155FCZZ	AA	DD		C	Pin(φ3-10) (Except Japan) ﾍｲｺｳﾋﾟﾝ
36	PSHEP5115FCZZ	AC	DJ	N	C	Vertical transfer mayler 縦搬送ﾏｲﾗｰ
	(Unit)					
901	CGiDM1977DS51	BA	FX	N	E	Vertical transfer guide unit(Without No.15,16,17) (Japan only) 縦搬送ｶﾞｲﾄﾞﾕﾆｯﾄ(No.15,16,17 除く)
	CGiDM1977DS52	BC	GJ	N	E	Vertical transfer guide unit(Without No.15,16,17) (Except Japan)[100V Series] 縦搬送ｶﾞｲﾄﾞﾕﾆｯﾄ(No.15,16,17 除く)
	CGiDM1977DS53	BC	GJ	N	E	Vertical transfer guide unit(Without No.15,16,17) (Except Japan)[200V Series] 縦搬送ｶﾞｲﾄﾞﾕﾆｯﾄ(No.15,16,17 除く)

16 縦搬送ｶﾞｲﾄﾞﾕﾆｯﾄ (Vertical transport guide unit)



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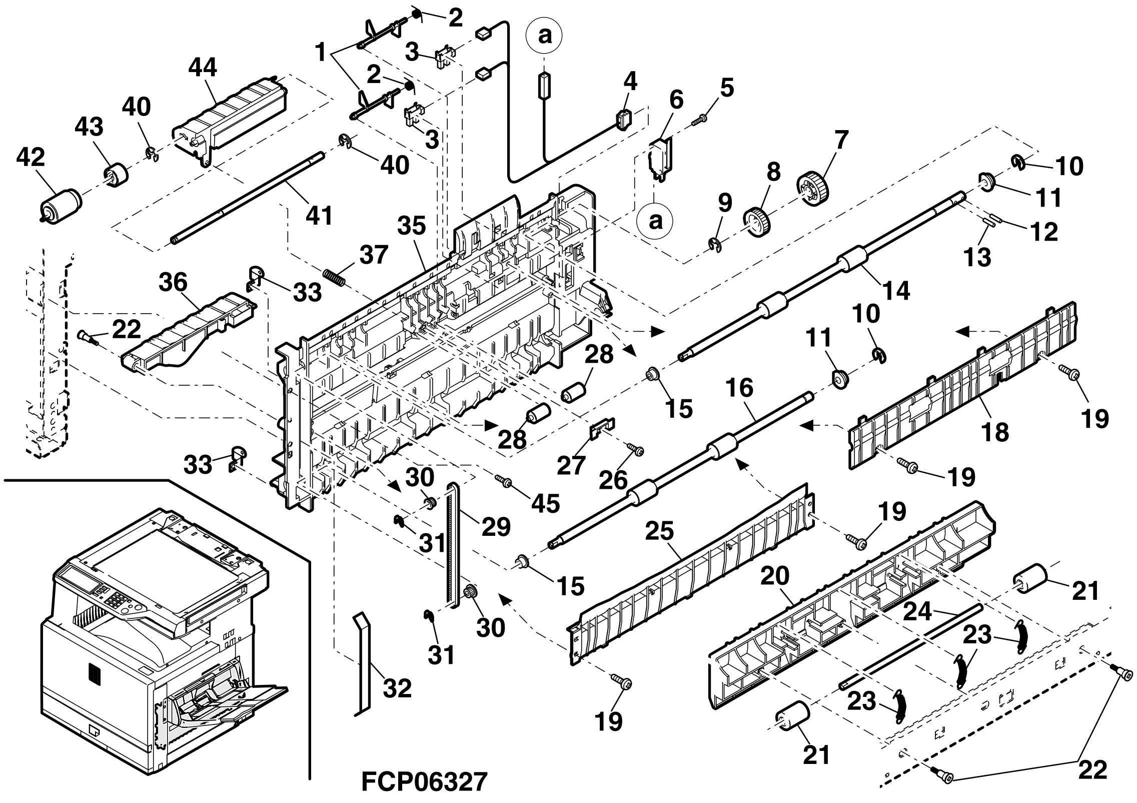
17 ｶｾｯﾄｶﾞｲﾄﾞ R・縦搬送下ﾕﾆｯﾄ (Cassette guide R/Vertical transport lower unit)

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION	
		Ex.	Ja.				
1	MLEVP0854FCZZ	AC	DJ	N	C	Transfer actuator	搬送ｱｸﾁｭｴ - ﾀ
2	MSPRD3067FCZZ	AC	DJ	N	C	Actuator spring	ｱｸﾁｭｴｰﾀ復帰ｽﾌﾟﾘﾝｸﾞ
3	VHPGP1A71L3−1	AG	DS	N	B	Photo sensor(GP1A71L3)	ﾌｫﾄｾﾝｻｰ
4	DHAi−3341FCZZ	AH	DX	N	C	PFD harness	PFD ﾊｰﾈｽ
5	XEBSD30P16000	AA	DD		C	Screw(3×16)	ﾋﾞｽ
6	QSW−M0502FCZZ	AH	DX		B	Door switch(AM51632C531)	ﾄﾞｱｽｲｯﾁ
7	NGERH1245FCZZ	AF	DS		C	Transport drive gear(28T)	搬送駆動ｷﾞﾔ
8	NGERH0111FCWZ	AD	DJ		C	Idle gear(24T)	ｱｲﾄﾞﾙｷﾞﾔ
9	XRESP70−08000	AA	DD		C	E type ring	E- ﾘﾝｸﾞ
10	LSTPP0274FCZZ	AA	DD		C	Stopper	ｽﾄｯﾊﾟｰ
11	NBRGP0626FCZZ	AC	DJ		C	Bearing(M8)	軸受け
12	LPiNS0096FCZZ	AB	DD		C	Pin(ϕ3-12)	ﾋﾟﾝ
13	LPiNS0155FCZZ	AA	DD		C	Pin(ϕ3-10)	ﾍｲｺｳﾋﾟﾝ
14	NRŌLR1401FCZZ	AS	EQ	N	C	Vertical tansfer roller	縦搬送ﾛ - ﾗ
15	NBRGC0188FCZZ	AB	DD		C	Bearing	軸受け
16	NRŌLR1429FCZZ	AS	EQ	N	C	Vertical tansfer roller lower	縦搬送ﾛｰﾗ下
18	PGiDM1802FCZZ	AK	DX		C	Paper feed enter PG	給紙口ﾍﾟｰﾊﾟｰｶﾞｲﾄﾞ
19	XEBSE40P08000	AA	DD		C	Screw(4×8)	ﾋﾞｽ
20	PGiDM1988FCZZ	AS	EZ	N	C	Vertical transfer lower PG	縦搬送下 PG
21	NRŌLP0896FCZZ	AC	DD		C	Transport sub roller	搬送従動ﾛｰﾗ
22	LX−BZ0960FCZZ	AC	DD		C	Screw	ﾋﾞｽ
23	MSPRT3094FCZ1	AC	DJ	N	C	Transfer spring 1	搬送ｽﾌﾟﾘﾝｸﾞ 1
24	NSFTZ2704FCZZ	AL	EB	N	C	Vertical transfer follow shaft	縦搬送従動ｼｬﾌﾄ
25	PCŌVP1509FCZZ	AH	DX		D	Transport stay R cover	搬送ｽﾃｰ R ｶﾊﾞｰ
26	XEBSD30P08000	AA	DD		C	Screw(3×8)	ﾋﾞｽ
27	LFiX−0524FCZZ	AC	DJ		C	PG collar holder	PG ｺﾛ押え
28	PCLR−0450FCZZ	AD	DJ		C	PG collar	PG ｺﾛ
29	NBLTH0376FCZZ	AF	DS	N	C	Sub roller belt	補助ﾛｰﾗﾍﾞﾙﾄ
30	NPLYZ0403FCZZ	AD	DJ	N	C	Sub roller pulley	補助ﾛ - ﾗﾌﾟｰﾘｰ
31	PRNGP0081FCZZ	AA	DJ		C	Ring(E4)	ﾘﾝｸﾞ
32	PSHEZ5007FCZZ	AF	DS	N	C	Sub belt sheet	補助ﾍﾞﾙﾄｼ - ﾄ
33	MSPRP3105FCZZ	AC	DJ	N	C	Transfer roller earth spring	搬送ﾛｰﾗｱｰｽ板ﾊﾞﾈ
35	PGiDM1978FCZZ	AW	FG	N	C	Cassette guide R	ｶｾｯﾄｶﾞｲﾄﾞ R
36	PGiDM1984FCZZ	AF	DS	N	C	PF lower front PG	給紙下前ﾍﾟｰﾊﾟｰｶﾞｲﾄﾞ
37	MSPRC3085FCZ1	AC	DJ	N	C	Separator roller pressure spring	分離ﾛｰﾗ加圧ｽﾌﾟﾘﾝｸﾞ
40	XRESP50−06000	AA	DD		C	E type ring	E- ﾘﾝｸﾞ
41	CSFTZ2706DS51	AP	EQ	N	C	Separate roller shaft	分離ﾛ - ﾗｰｼｬﾌﾄ
42	NRŌLR1411FCZZ	AK	EB	N	B	Paper feed separater roller	給紙分離ﾛ - ﾗ
43	PCLC−0316FCZ1	AR	EQ	N	B	Sparater roller torque limiter	分離ﾛｰﾗﾄﾙｸﾘﾐｯﾀｰ
44	PGiDM1982FCZZ	AF	DS	N	C	Separater roller guide	分離ﾛｰﾗｶﾞｲﾄﾞ
45	XHBSE40P08000	AA	DD		C	Screw(4×8)	ﾋﾞｽ

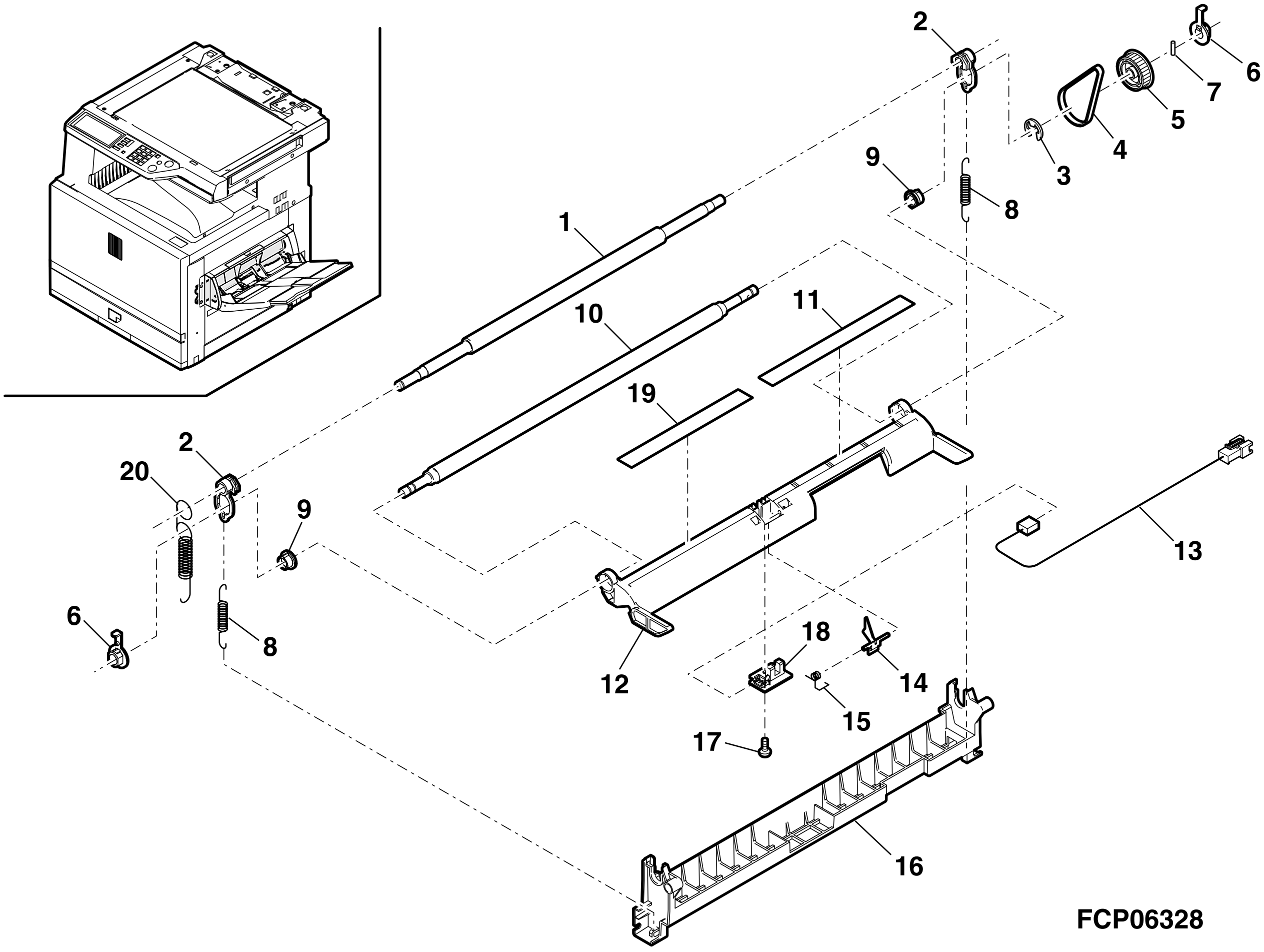
17 ｶｾｯﾄｶﾞｲﾄﾞ R・縦搬送下ﾕﾆｯﾄ (Cassette guide R/Vertical transport lower unit)



18 PS ﾕﾆｯﾄ (PS unit)

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION	
		Ex.	Ja.				
1	NRŌLP1403FCZZ	AR	FQ	N	C	PS follow roller	PS 従動ﾛｰﾗ
2	NBRGP0604FCZZ	AD	DJ		C	Bearing	軸受け
3	XRESP70−08000	AA	DD		C	E type ring	E- ﾘﾝｸﾞ
4	NBLTH0373FCZZ	AF	DS	N	C	PS drive belt	PS 駆動ﾍﾞﾙﾄ
5	NPLYZ0352FCZZ	AE	DJ		C	PS drive pulley	PS 駆動ﾌﾟｰﾘｰ
6	NBRGP0682FCZZ	AC	DJ	N	C	Bearing	軸受け
7	LPiNS0096FCZZ	AB	DD		C	Pin(φ3-12)	ﾋﾟﾝ
8	MSPRC2731FCZ1	AC	DJ		C	PS pressure spring	PS 加圧ｽﾌﾟﾘﾝｸﾞ
9	NBRGP0626FCZZ	AC	DJ		C	Bearing(M8)	軸受け
10	NRŌLR1402FCZZ	AU	EZ	N	C	PS roller	PS ﾛ - ﾗ
11	PSHEP4972FCZ1	AE	DS	N	C	PS front sheet A	PS 前ｼ - ﾄ A
12	PGiDM1979FCZZ	AH	DX	N	C	PS front PG	PS 前ﾍﾟｰﾊﾟｰｶﾞｲﾄﾞ
13	DHAi−3342FCZZ	AE	DS	N	C	PPD2 harness	PPD2 ﾊｰﾈｽ
14	MLEVP0857FCZZ	AF	DJ	N	C	PS front actuator	PS 前ｱｸﾁｭｴ - ﾀ
15	MSPRD3097FCZZ	AC	DJ	N	C	PS front actuator spring	PS 前ｱｸﾁｭｴｰﾀｽﾌﾟﾘﾝｸﾞ
16	LFRM−1076FCZZ	AN	EG	N	C	PS frame	PS ﾌﾚｰﾑ
17	XEBSD30P08000	AA	DD		C	Screw(3×8)	ﾋﾞｽ
18	CPWBF0083RS51	AU	EZ		E	Sensor PWB	ｾﾝｻｰ基板
19	PSHEP4985FCZ1	AE	DJ	N	C	PS front sheet B	PS 前ｼ - ﾄ B
20	MSPRC3104FCZZ	AD	DJ	N	C	PS earth spring	PS ｱｰｽｽﾌﾟﾘﾝｸﾞ
	(Unit)						
901	CFRM−1076DS51	BD	GN	N	C	PS unit(Without No.4)	PS ﾕﾆｯﾄ (No.4 除く)

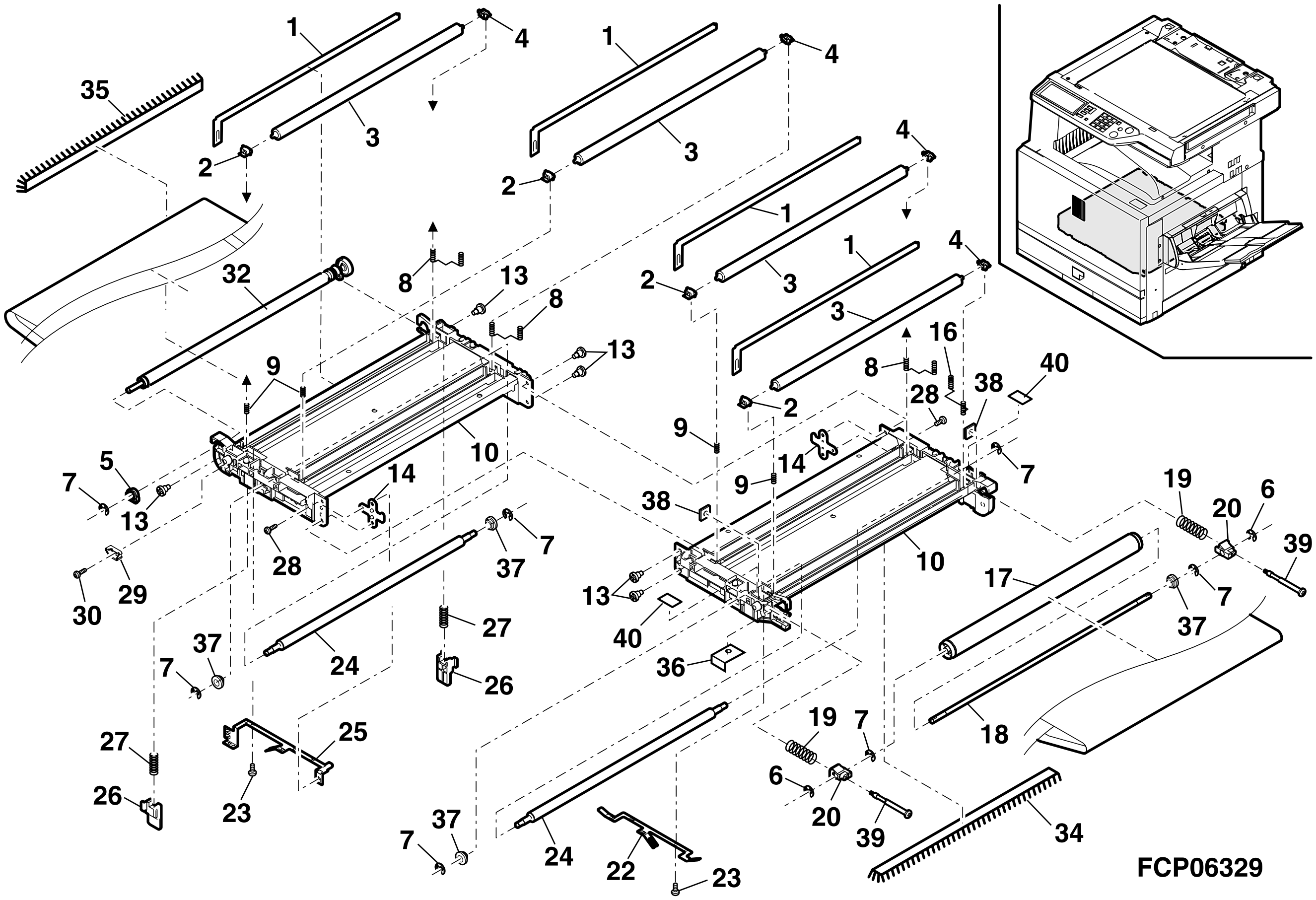
18 PS ﾕﾆｯﾄ (PS unit)



19 転写ﾍﾞﾙﾄﾕﾆｯﾄ 1(Transfer belt unit 1)

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION	
		Ex.	Ja.				
1	PSHEZ4973FCZZ	AH	DX	N	B	Electric discharge sheet W	除電ｼｰﾄ W
2	NBRGP0677FCZZ	AC	DJ	N	B	Bearing	軸受け
3	NRŌLR1391FCZZ	AY	FQ	N	A	Transfer roller W	転写ﾛｰﾗ W
4	NBRGP0678FCZZ	AF	DS	N	B	Bearing	軸受け
5	NBRGP0675FCZZ	AH	DX	N	B	Bearing	軸受け
6	XRESP40-06000	AA	DD		C	E type ring	E- ﾘﾝｸﾞ
7	XRESP50-06000	AA	DD		C	E type ring	E- ﾘﾝｸﾞ
8	MSPRD3046FCZZ	AD	DJ	N	C	Transfer roller electrode C spring	転写ﾛｰﾗｰ電気 C ｽﾌﾟﾘﾝｸﾞ
9	MSPRC3047FCZZ	AB	DJ	N	C	Transfer roller pressure spring	転写ﾛｰﾗｰ加圧ｽﾌﾟﾘﾝｸﾞ
10	LFRM-1064FCZ1	AT	EZ	N	C	Belt frame	ﾍﾞﾙﾄﾊｳｼﾞﾝｸﾞ
13	LX-BZ0949FCZZ	AC	DD	N	C	Screw	ﾋﾞｽ
14	LPLTM5986FCZZ	AD	DJ	N	C	Housing fixing plate	ﾊｳｼﾞﾝｸﾞ取付けﾌﾟﾚｰﾄ
16	MSPRD3045FCZZ	AD	DJ	N	C	Transfer roller electrode k spring	転写ﾛｰﾗｰ電気 K ｽﾌﾟﾘﾝｸﾞ
17	CRŌLM1390FC01	AW	FG	N	B	Belt sub roller	ﾍﾞﾙﾄ従動ﾛｰﾗｰ
18	NSFTZ2690FCZ1	AL	EB	N	C	Belt sub roller shaft	ﾍﾞﾙﾄ従動ﾛｰﾗｼｬﾌﾄ
19	MSPRC3044FCZ1	AD	DJ	N	C	Belt tension spring	ﾍﾞﾙﾄﾃﾝｼｮﾝｽﾌﾟﾘﾝｸﾞ
20	NBRGP0676FCZ1	AC	DJ	N	C	Bearing	軸受け
22	QEARP0139FCZZ	AD	DJ	N	C	Belt earth plate J	ﾍﾞﾙﾄｱｰｽ板 J
23	XEBSD30P06000	AA	DD		C	Screw(3×6)	ﾋﾞｽ
24	NSFTZ2689FCZZ	AR	EQ	N	C	Belt idle shaft	ﾍﾞﾙﾄｱｲﾄﾞﾙｼｬﾌﾄ
25	QEARP0138FCZZ	AE	DJ	N	C	Belt earth plate K	ﾍﾞﾙﾄｱｰｽ板 K
26	LHLDZ1509FCZZ	AF	DS	N	C	Belt presure holder	ﾍﾞﾙﾄ加圧ﾎﾙﾀﾞｰ
27	MSPRC3109FCZZ	AC	DJ	N	C	Belt pressure spring	ﾍﾞﾙﾄ加圧ｽﾌﾟﾘﾝｸﾞ
28	XHBSD30P10000	AA	DD		C	Screw(3×10)	ﾋﾞｽ
29	LHLDZ1539FCZZ	AD	DJ	N	C	Belt holder	ﾍﾞﾙﾄﾎﾙﾀﾞ-
30	XEBSD30P08000	AA	DD		C	Screw(3×8)	ﾋﾞｽ
32	CRŌLM1404DS51	BB	GD	N	E	Belt drive roller unit	ﾍﾞﾙﾄ駆動ﾛｰﾗｰﾕﾆｯﾄ
34	PBRSR0222FCZZ	AK	DX	N	B	Belt CL brush	ﾍﾞﾙﾄ CL ﾌﾞﾗｼ
35	PBRSR0223FCZ1	AL	EB	N	B	Roller CL brush	ﾛｰﾗ CL ﾌﾞﾗｼ
36	PSHEP5087FCZZ	AC	DJ	N	C	Earth plate fixing sheet	ｱｰｽﾌﾟﾚｰﾄ押えｼｰﾄ
37	NBRGP0674FCZZ	AE	DJ	N	C	Bearing	軸受け
38	LPLTM5714FCZZ	AB	DJ		C	M3 Plate	M3 ﾌﾟﾚｰﾄ
39	LX-BZ0965FCZZ	AE	DS	N	C	Screw	ﾋﾞｽ
40	PSHEZ5130FCZZ	AA	DJ	N	C	Plate fixing sheet	ﾌﾟﾚｰﾄ押さえｼｰﾄ
	(Unit)						
901	DUNT-7188DS11	CE	UF	N	A	Transfer belt unit(Include Block 20, Without No.39) 転写ﾍﾞﾙﾄﾕﾆｯﾄ (ﾌﾞﾛｯｸ 20 含む。No.39 除く)	(Japan)
901	DUNT-7188DS12	CE	UF	N	A	Transfer belt unit(Include Block 20, Without No.39) 転写ﾍﾞﾙﾄﾕﾆｯﾄ (ﾌﾞﾛｯｸ 20 含む。No.39 除く)	(Except Japan)

19 転写ﾍﾞﾙﾄﾕﾆｯﾄ 1(Transfer belt unit 1)



20 転写ﾍﾞﾙﾄﾕﾆｯﾄ 2(Transfer belt unit 2)

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION	
		Ex.	Ja.				
1	VHPGP2TC21//1	BE	GN		B	Pro con sensor(GP1A71L3)	ﾌﾟﾛｺﾝｾﾝｻｰ
2	XBBSD30P06000	AA	DD		C	Screw(3×6)	ﾋﾞｽ
3	DHAi-3414FC11	AL	EB	N	C	PCS harness	PCS ﾊｰﾈｽ
4	CPWBF1529DS51	AR	EQ	N	E	Pro con PWB	ﾌﾟﾛｺﾝ基板
5	PSEL-0853FCZZ	AC	DJ	N	C	Belt waste toner seal B	ﾍﾞﾙﾄ廃ﾄﾅｰｼｰﾙ B
6	UCLEZ0170FCZZ	AK	EB	N	A	Belt toner blade	ﾍﾞﾙﾄﾄﾅｰ受け
7	XEBSD30P06000	AA	DD		C	Screw(3×6)	ﾋﾞｽ
9	LPLTM5987FCZZ	AG	DX	N	C	Belt CL plate	ﾍﾞﾙﾄ CL ﾌﾟﾚｰﾄ
10	PSHEP4968FCZZ	AD	DJ	N	C	Belt waste toner transfer sheet	ﾍﾞﾙﾄ廃ﾄﾅｰ搬送ｼｰﾄ
11	XEBSD30P08000	AA	DD		C	Screw(3×8)	ﾋﾞｽ
12	UCLEZ0169FCZZ	AQ	EQ	N	A	Transfer blade	転写ﾌﾞﾚｰﾄﾞ
13	XHBSE30P08000	AA	DD		C	Screw(3×8)	ﾋﾞｽ
14	PSEL-0809FCZZ	AD	DJ	N	C	Waste toner cover seal	廃ﾄﾅｰｶﾊﾞｰｼｰﾙ
15	PCŌVP1649FCZZ	AN	EG	N	C	Belt waste toner cover	ﾍﾞﾙﾄﾊｲｼﾄﾅｰｶﾊﾞｰ
16	PCAPH0009YSZZ	AC	DJ		C	TN cap	TN ｷｬｯﾌﾟ
17	MLEVP0843FCZ1	AC	DJ	N	C	Belt CL lever	ﾍﾞﾙﾄ CL ﾚﾊﾞｰ
18	MSPRT3049FCZZ	AC	DJ	N	C	Belt CL roller spring	ﾍﾞﾙﾄ CL ﾛｰﾗｽﾌﾟﾘﾝｸﾞ
19	NRŌLR1392FCZZ	BA	FX	N	A	Belt CL roller	ﾍﾞﾙﾄ CL ﾛ - ﾗ
20	XRESP40-06000	AA	DD		C	E type ring	E- ﾘﾝｸﾞ
21	NGERH1500FCZZ	AD	DJ	N	B	Belt waste toner gear	ﾍﾞﾙﾄ廃ﾄﾅｰｷﾞﾔ
22	PCLC-0318FCZZ	AC	DJ	N	B	Wastle toner detector clutch	排紙ﾄﾅｰ検知ｸﾗｯﾁ
23	MLEVP0865FCZZ	AC	DS	N	C	Delivery toner detector lever A	排紙ﾄﾅｰ検知ﾚﾊﾞｰ A
24	MSPRT2414FCZZ	AC	DJ		C	SW lower pawl spring	SW 下爪ｽﾌﾟﾘﾝｸﾞ
25	NBRGP0664FCZZ	AD	DJ		C	Bearing	軸受け
26	DHAi-3350FC11	AV	FG	N	C	Belt drawer harness	ﾍﾞﾙﾄﾄﾞﾛｱﾊｰﾈｽ
27	PCASZ0298FCZZ	AQ	EQ	N	C	Belt wastle toner transfer case	ﾍﾞﾙﾄ廃ﾄﾅｰ搬送ｹｰｽ
28	PMLT-1288FCZ1	AB	DJ	N	C	Belt wastle toner cushion A	ﾍﾞﾙﾄ排紙ﾄﾅｰﾓﾙﾄ A
30	PMLT-1287FCZZ	AB	DJ	N	C	Waste toner auger cushion	廃ﾄﾅｰｵｰｶﾞﾓﾙﾄ
31	NSFTZ2712FCZ1	AN	EG	N	C	Belt waste toner transfer shaft	ﾍﾞﾙﾄ廃ﾄﾅｰ搬送ｼｬﾌﾄ
32	XRESP50-06000	AA	DD		C	E type ring	E- ﾘﾝｸﾞ
33	LHLDZ1519FCZZ	AW	FG	N	C	Process control sensor holder	ﾌﾟﾛｺﾝｾﾝｻｰﾎﾙﾀﾞｰ
34	XBBSD30P04000	AA	DD		C	Screw(3×4)	ﾋﾞｽ
35	RPLU-0013QSZZ	AN	EG		B	Transport solenoid	搬送ｿﾚﾉｲﾄﾞ
36	XEBSD30P10000	AA	DD		C	Screw(3×10)	ﾋﾞｽ
37	LX-BZ0036GCZZ	AC	DD		C	Screw	ﾋﾞｽ
38	RMŌTS0881FCZZ	BC	GD	N	B	Belt drive motor PM	ﾍﾞﾙﾄ駆動ﾓｰﾀ PM
39	CPLTM6011FC02	AS	EQ	N	C	Belt drive plate	ﾍﾞﾙﾄ駆動ﾌﾟﾚｰﾄ
40	XEBSD40P08000	AA	DD		C	Screw(4×8)	ﾋﾞｽ
41	TLABH4747FCZ1	AH	DX	N	C	Transfer belt caution label (Japan)	ﾃﾝｼﾔﾍﾞﾙﾄﾁﾕｳｲﾗﾍﾞﾙ
	TLABH4747FCZZ	AE	DJ	N	C	Transfer belt caution label (Except Japan)	ﾃﾝｼﾔﾍﾞﾙﾄﾁﾕｳｲﾗﾍﾞﾙ
42	XHBSD30P06000	AA	DD		C	Screw(3×6)	ﾋﾞｽ
43	LDAiU0656FCZZ	AF	DS	N	C	Belt idle fixing base	ﾍﾞﾙﾄｱｲﾄﾞﾙ固定板
44	NGERH1499FCZZ	AG	DX	N	B	Belt idle gear	ﾍﾞﾙﾄｱｲﾄﾞﾙｷﾞﾔ
45	LX-WZ2011SCZZ	AA	DD		C	Washer	ﾎﾟﾘｽﾗｲﾀﾞｰ
46	PSHT-0094FCZZ	AD	DJ	N	C	Process control shutter	ﾌﾟﾛｺﾝｼｬｯﾀｰ
47	PCŌVP1648FCZ1	AE	DJ	N	C	Belt gear cover	ﾍﾞﾙﾄｷﾞｱｶﾊﾞｰ
48	MSPRT3165FCZZ	AC	DJ	N	C	Process control shutter spring	ﾌﾟﾛｺﾝｼｬｯﾀｰｽﾌﾟﾘﾝｸﾞ
49	QSW-B0017QSZZ	AF	DS	N	B	Tray detect switch	ｶｾｯﾄ検知ｽｲｯﾁ
50	TLABZ4772FCZ1	AF	DJ	N	B	Criterion label	基準ﾗﾍﾞﾙ
51	XEPSD30P08X00	AA	DD		C	Screw(3×8X)	ﾋﾞｽ
52	PSEL-0831FCZZ	AC	DJ	N	C	Belt waste toner seal A	ﾍﾞﾙﾄ廃ﾄﾅｰｼｰﾙ A
53	PSEL-0832FCZZ	AC	DJ	N	C	Belt waste toner seal B	ﾍﾞﾙﾄ廃ﾄﾅｰｼｰﾙ B
54	PSEL-0855FCZZ	AA	DJ	N	C	Belt waste toner seal D	ﾍﾞﾙﾄ廃ﾄﾅｰｼｰﾙ D
55	PSEL-0854FCZZ	AA	DJ	N	C	Belt waste toner seal C	ﾍﾞﾙﾄ廃ﾄﾅｰｼｰﾙ C
56	PSHEP5076FCZZ	AC	DJ	N	C	Harnes fixing sheet	ﾊｰﾈｽ押えｼｰﾄ
57	PSHEZ4974FCZZ	AC	DJ	N	B	Belt cushion	ﾍﾞﾙﾄﾓｹｯﾄ
60	MSPRC3106FCZZ	AC	DJ	N	C	Waste toner detector clutch spring	廃ﾄﾅｰ検知ｸﾗｯﾁｽﾌﾟﾘﾝｸﾞ
61	LX-WZ0445FCZ1	AC	DD	N	C	Washer	ﾎﾟﾘｽﾗｲﾀﾞｰ
62	TCADZ1595FCZZ	AC	DJ	N	C	Transfer belt fixing release manual	転写ﾍﾞﾙﾄ固定解除手順書
63	PSHEZ5126FCZZ	AF	DS	N	C	Blade protect sheet	ﾌﾞﾚｰﾄﾞ保護ｼｰﾄ
501	CCASZ0298DS52	BK	HG	N	A	Belt wastle toner unit	ﾍﾞﾙﾄﾊｲﾄﾅｰﾕﾆｯﾄ
	(Unit)						
901	DUNT-7188DS11	CE	UF	N	A	Transfer belt unit(Include Block 19、Without No.62,63) 転写ﾍﾞﾙﾄﾕﾆｯﾄ (ﾌﾞﾛｯｸ 19 含む。No.62,63 除く)	(Japan)
901	DUNT-7188DS12	CE	UF	N	A	Transfer belt unit(Include Block 19、Without No.62,63) 転写ﾍﾞﾙﾄﾕﾆｯﾄ (ﾌﾞﾛｯｸ 19 含む。No.62,63 除く)	(Except Japan)

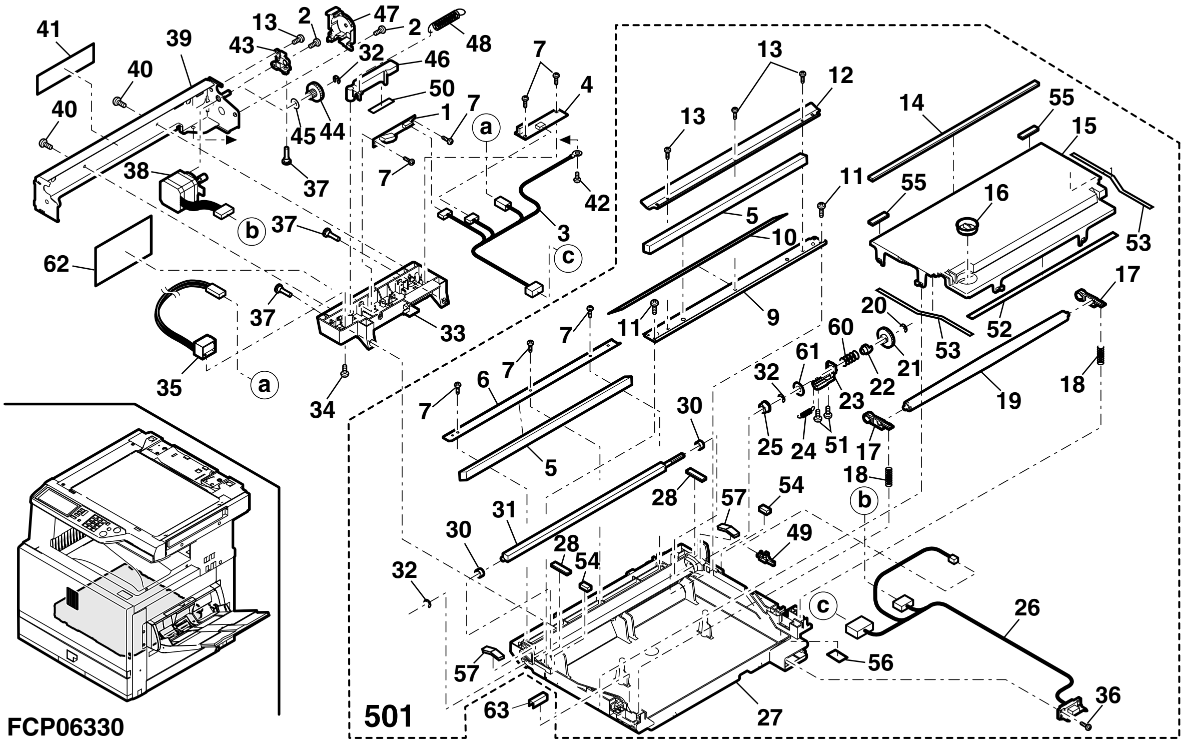
21 転写ﾘﾌﾄｱｯﾌﾟﾕﾆｯﾄ (Transfer lift-up unit)

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION	
		Ex.	Ja.				
1	NSFTZ2691FCZZ	AU	EZ	N	C	Belt lift-up cam shaft	ﾍﾞﾙﾄﾘﾌﾄｱｯﾌﾟｶﾑｼｬﾌﾄ
2	XRESP70-08000	AA	DD		C	E type ring	E- ﾘﾝｸﾞ
3	LPLTP6098FCZZ	AD	DJ	N	C	Belt lift-up detector plate	ﾍﾞﾙﾄﾘﾌﾄｱｯﾌﾟ検知ﾌﾟﾚｰﾄ
4	MCAMP0106FCZZ	AC	DJ	N	C	Belt lift-up cam	ﾍﾞﾙﾄﾘﾌﾄｱｯﾌﾟｶﾑ
5	LPiNS0096FCZZ	AB	DD		C	Pin(ϕ3-12)	ﾋﾟﾝ
6	CFRM-1066FC02	AK	EB	N	C	Belt lift up frame F	ﾍﾞﾙﾄﾘﾌﾄｱｯﾌﾟﾌﾚｰﾑ F
7	NSFTZ2730FCZZ	AK	EB	N	C	Belt brake shaft	ﾍﾞﾙﾄﾌﾞﾚｰｷｼｬﾌﾄ
8	NGERH1525FCZZ	AD	DJ	N	C	Belt brake gear	ﾍﾞﾙﾄﾌﾞﾚｰｷｷﾞﾔ
9	LX-WZ0445FCZ1	AC	DD	N	C	Washer(M16)	ﾎﾟﾘｽﾗｲﾀﾞｰ
10	MSPRC3077FCZ1	AC	DJ	N	C	Belt lift-up spring	ﾍﾞﾙﾄﾘﾌﾄｱｯﾌﾟｽﾌﾟﾘﾝｸﾞ

21 転写ﾘﾌﾄｱｯﾌﾟﾕﾆｯﾄ (Transfer lift-up unit)

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION	
		Ex.	Ja.				
11	XWHSD30-08100	AA	DD		C	Washer	ﾋﾗ ﾜｯｼｬ
12	LX-BZ0916FCZZ	AA	DD		C	Screw	ﾋﾞｽ
13	NBRGC0319FCZ1	AC	DJ		C	Bearing	軸受け
14	PCLR-0474FCZZ	AC	DJ	N	C	Belt lift-up collar	ﾍﾞﾙﾄﾘﾌﾄｱｯﾌﾟｶﾗｰ
15	XHBSD30P06000	AA	DD		C	Screw(3×6)	ﾋﾞｽ
16	XRESP40-06000	AA	DD		C	E type ring	E-ﾘﾝｸﾞ
17	NGERH1504FCZZ	AD	DJ	N	C	Waste toner idle gear(42T)	廃ﾄﾅｰｱｲﾄﾞﾙｷﾞﾔ
18	CARMM0286FC01	AG	DX	N	C	Wastle toner gear arm	ﾊｲﾄﾅｰｷﾞﾔｱｰﾑ
19	NGERH1503FCZZ	AC	DJ	N	C	Lift-up gear(12/24T)	ﾘﾌﾄｱｯﾌﾟｷﾞﾔ
20	MSPRT3050FCZZ	AC	DJ	N	C	Wastle toner gear aem spring	廃ﾄﾅｰｷﾞｱｱｰﾑｽﾌﾟﾘﾝｸﾞ
21	CFRM-1066FC01	AQ	EQ	N	C	Belt lift up frame R	ﾍﾞﾙﾄﾘﾌﾄｱｯﾌﾟﾌﾚｰﾑ R
22	NGERH1505FCZZ	AD	DJ	N	C	Waste toner idle gear(12/18T)	廃ﾄﾅｰｱｲﾄﾞﾙｷﾞﾔ
23	NGERH1502FCZZ	AD	DJ	N	C	Lift-up gear(16/36T)	ﾘﾌﾄｱｯﾌﾟｷﾞﾔ
24	NGERH1501FCZZ	AK	EB	N	B	Belt lift-up gear(44T)	ﾍﾞﾙﾄﾘﾌﾄｱｯﾌﾟｷﾞﾔ
25	VHPGP1A71L3-1	AG	DS	N	B	Photo sensor(GP1A71L3)	ﾌｫﾄｾﾝｻｰ
26	DHAi-3344FCZZ	AF	DS	N	C	BLUD harness	BLUD ﾊｰﾈｽ
27	PSHEP4986FCZZ	AC	DJ	N	C	Lift-up edge protect sheet	ﾘﾌﾄｱｯﾌﾟｴｯｼﾞ保護ｼｰﾄ
28	LSTYM0293FCZZ	AP	EQ	N	C	Belt lift-UP stay	ﾍﾞﾙﾄﾘﾌﾄｱｯﾌﾟｽﾃｰ
29	RMOTS0882FCZZ	BA	FX	N	B	Belt lift up motor	ﾍﾞﾙﾄﾘﾌﾄｱｯﾌﾟﾓｰﾀ

20 転写ﾍﾞﾙﾄﾕﾆｯﾄ 2(Transfer belt unit 2)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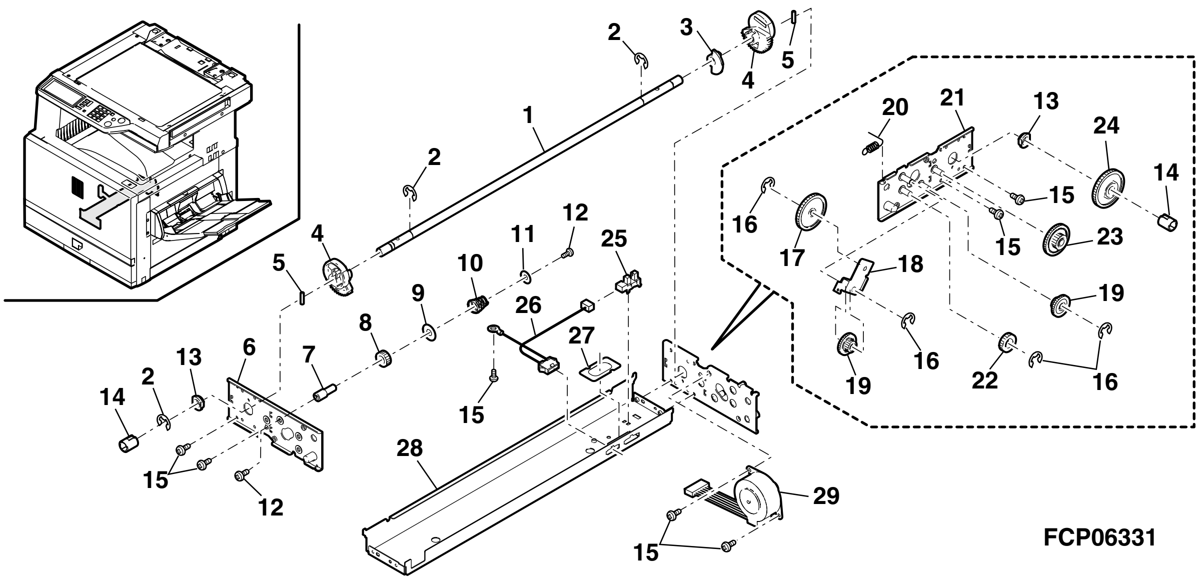
21 転写ﾘﾌﾄｱｯﾌﾟﾕﾆｯﾄ (Transfer lift-up unit)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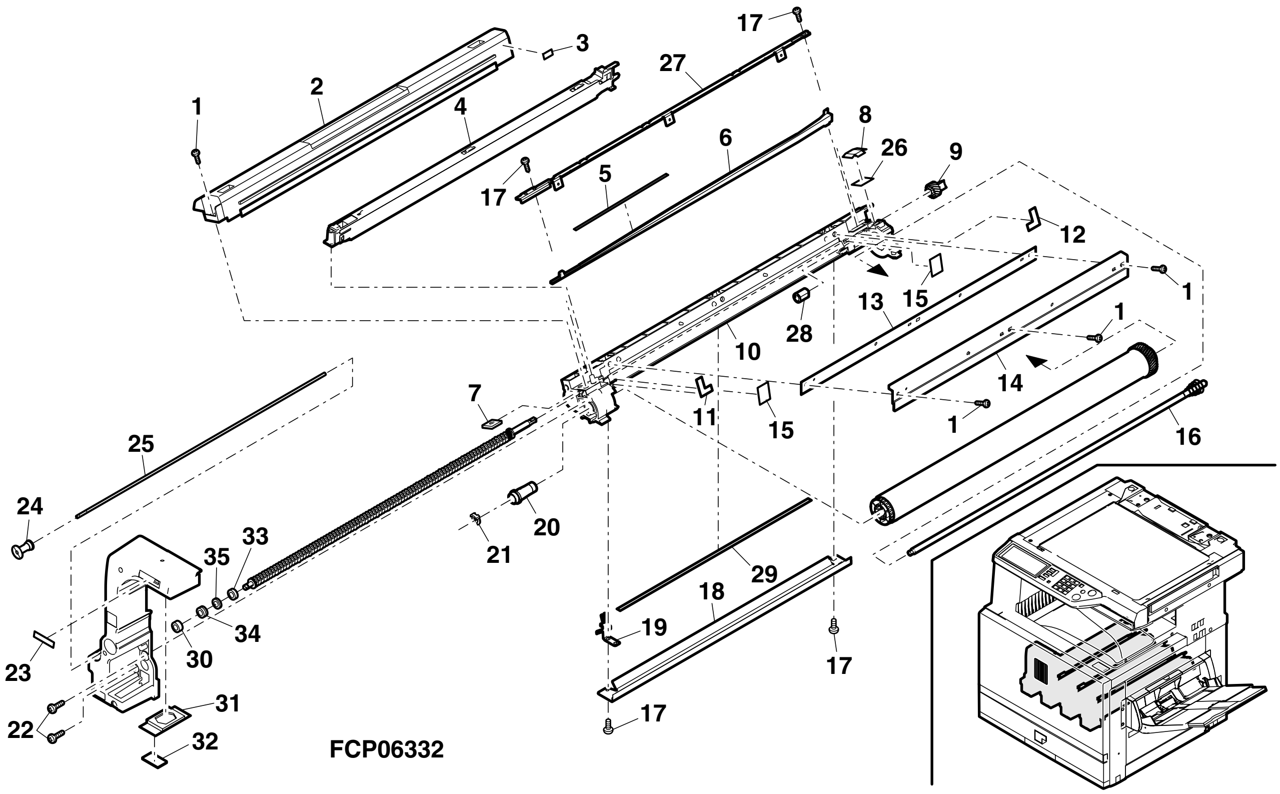
FCP06331

22 ﾌﾟﾛｾｽﾕﾆｯﾄ (Process unit)

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION	
		Ex.	Ja.				
1	XBBS230P08000	AA	DD		C	Screw(3×8)	ﾋﾞｽ
2	CFRM-1084DS51	AR	EQ	N	E	MC frame unit	MC ﾌﾚｰﾑﾕﾆｯﾄ
3	TLABZ4766FCZ1	AC	DJ	N	C	ARW-label-BK	ARW ﾗﾍﾞﾙ BK
4	CCASZ0302DS51	BB	GD	N	A	MC unit	MC ﾕﾆｯﾄ
5	PSHEP5062FCZZ	AB	DJ	N	C	RFL sheet	RFL ｼｰﾄ
6	PLNS-0076FCZZ	AL	EB	N	B	DCH Lens	DCH ﾚﾝｽﾞ
7	LPLTM5714FCZZ	AB	DJ		C	M3 plate	M3 ﾌﾟﾚｰﾄ
8	PSHEZ5027FCZZ	AB	DJ	N	B	Cleaning sheet	ｸﾘｰﾆﾝｸﾞ ｼｰﾄ
9	NGERH1529FCZZ	AC	DJ	N	C	WTN-gear-21T(21T)	ｷﾞﾔ
10	CFRM-1083DS72	AQ	EQ	N	E	Process frame unit	ﾌﾟﾛｾｽﾌﾚｰﾑﾕﾆｯﾄ
11	PSHEZ4997FCZ1	AC	DJ	N	A	Side sheet F	ｻｲﾄﾞｼｰﾄ F
12	PSHEZ4998FCZ1	AB	DJ	N	A	Side sheet R	ｻｲﾄﾞｼｰﾄ R
13	PSHEP5061FCZ1	AD	DJ	N	C	BLC sheet	BLC ｼｰﾄ
14	UCLEZ0171FCZ2	AX	FG	N	A	Cleaner blade	ｸﾘｰﾅｰﾌﾞﾚｰﾄﾞ
15	PSHEP5089FCZZ	AA	DJ	N	C	Blade side sheet	ﾌﾞﾚｰﾄﾞｻｲﾄﾞｼｰﾄ
16	CSFTZ2716DS51	AP	EQ	N	C	Drum shaft	ﾄﾞﾗﾑｼｬﾌﾄ
17	XEBSD30P08000	AA	DD		C	Screw(3×8)	ﾋﾞｽ
18	UCLEZ0172FCZ1	AQ	EQ	N	A	WTN cleaner seel	WTN ｸﾘｰﾅｰｼｰﾙ
19	QEARP0140FCZZ	AD	DJ	N	C	GND earth CL	GND- ｱｰｽ -CL
20	NBRGP0688FCZ1	AD	DJ	N	C	Bearing	軸受け
21	LSTPP0011QSZZ	AC	DJ		C	Stopper	ｽﾄｯﾊﾟｰ
22	XEBSD40P10000	AA	DD		C	Screw(3×10)	ﾋﾞｽ
23	TLABZ4753FCZZ	AA	DJ	N	C	Color label Y	ｶﾗｰﾗﾍﾞﾙ Y
	TLABZ4754FCZZ	AA	DJ	N	C	Color label M	ｶﾗｰﾗﾍﾞﾙ M
	TLABZ4755FCZZ	AA	DJ	N	C	Color label C	ｶﾗｰﾗﾍﾞﾙ C
	TLABZ4756FCZZ	AB	DJ	N	C	Color label BK	ｶﾗｰﾗﾍﾞﾙ BK
24	JHNDP0167FCZ2	AC	DJ	N	C	MC cleaner handle	MC CLE ﾊﾝﾄﾞﾙ
25	NSFTZ2736FCZZ	AP	EQ	N	C	MC cleaner shaft	MC ｸﾘｰﾅｰｼｬﾌﾄ
26	PMLT-1312FCZZ	AB	DJ	N	C	Cleaner cushion	ｸﾘｰﾅｰﾓﾙﾄ
27	LPLTM6112FCZZ	AH	DX	N	C	Process frame RFC	ﾌﾟﾛｾｽﾌﾚｰﾑ RFC
28	NBRGP0687FCZZ	AG	DS	N	C	Bearing	軸受け
29	PSEL-0829FCZ1	AC	DJ	N	C	Blade seal	ﾌﾞﾚｰﾄﾞｼｰﾙ
30	PSHEZ5099FCZ1	AC	DJ	N	C	DCT sheet	DCT ｼｰﾄ
31	PSEL-0835FCZ1	AC	DJ	N	C	Drop seal	ﾄﾞﾛｯﾌﾟｼｰﾙ
32	PSEL-0864FCZZ	AD	DJ	N	C	Drop seal BRS	ﾄﾞﾛｯﾌﾟｼｰﾙ BRS
33	PSEL-0830FCZZ	AA	DJ	N	C	STP seal PIP	STP ｼｰﾙ PIP
34	PSEL-0866FCZZ	AB	DJ	N	C	PIP seal TOP	PIP ｼｰﾙ TOP
35	PSHEP5121FCZZ	AA	DJ	N	C	RING sheet PIP	RING ｼｰﾄ PIP
	(Unit)						
901	CFRM-1083DS51	BK	HC	N	E	Process unit(Without No.3,16,21,23) (U.S.A Other countries)	ﾌﾟﾛｾｽﾕﾆｯﾄ (No.3,16,21,23 除く)
	CFRM-1083DS52	BH	HC	N	E	Process unit(Without No.3,16,21,23) (Japan,Europe,Australia,New Zealand)	ﾌﾟﾛｾｽﾕﾆｯﾄ (No.3,16,21,23 除く)

22 ﾌﾟﾛｾｽﾕﾆｯﾄ (Process unit)

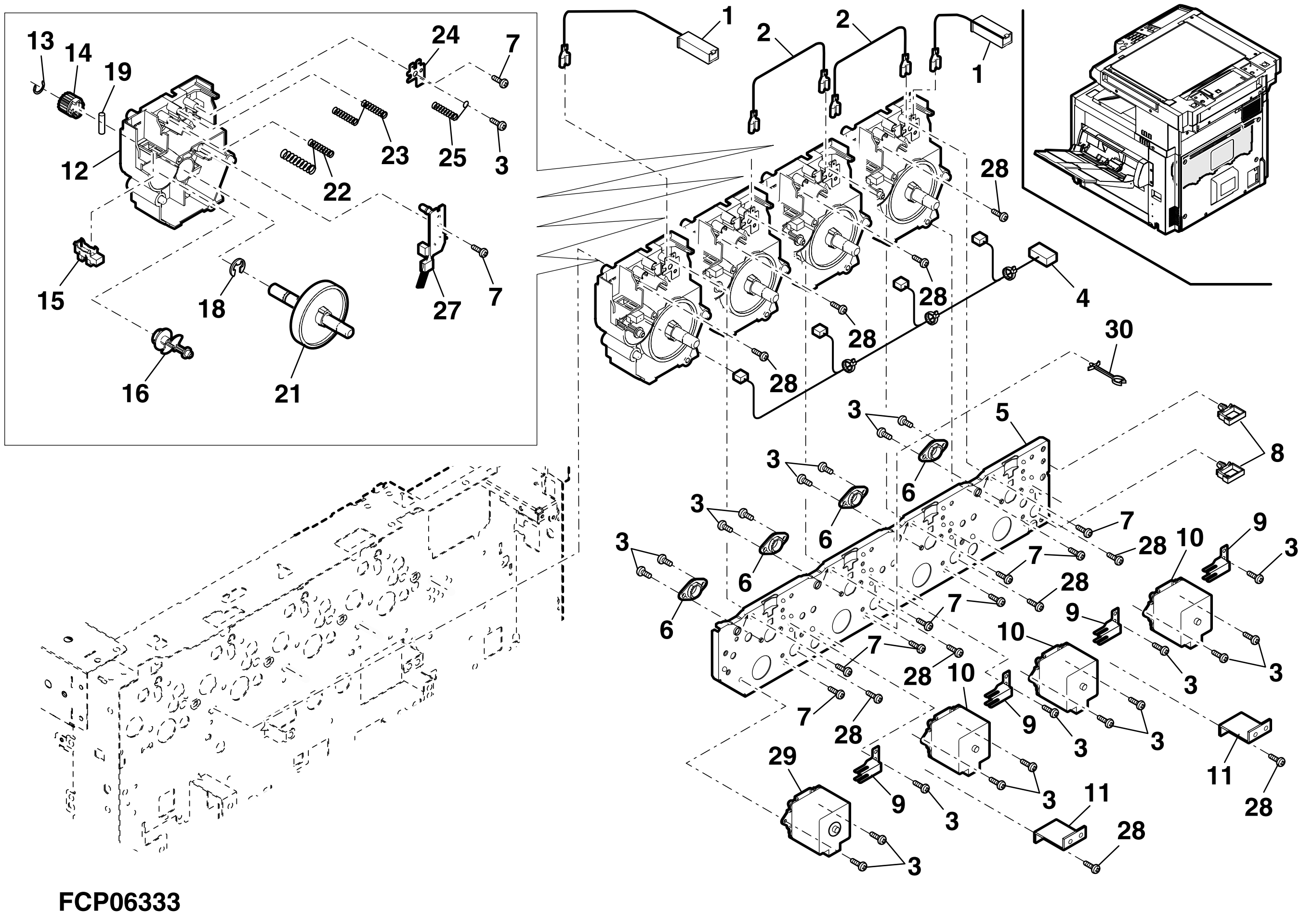


FCP06332

23 ﾄﾞﾗﾑ駆動ﾕﾆｯﾄ (Drum drive unit)

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION	
		Ex.	Ja.				
1	DHAi−3351FCZZ	AD	DJ	N	C	MC CMY harness	MC CMY ﾊｰﾈｽ
2	DHAi−3349FCZZ	AD	DJ	N	C	Drive interface high voltage harness	駆動間高圧ﾊｰﾈｽ
3	XHBSD30P06000	AA	DD		C	Screw(3×6)	ﾋﾞｽ
4	DHAi−3365FCZZ	AH	DX	N	C	TES harness	TES ﾊｰﾈｽ
5	LFRM−1062FCZZ	AP	EQ	N	C	DR drive frame T	DR 駆動ﾌﾚｰﾑ T
6	NBRGC0672FCZZ	AE	DJ	N	C	Bearing	軸受け
7	XEBSD40P08000	AA	DD		C	Screw(4×8)	ﾋﾞｽ
8	LHLDW1155FCZZ	AC	DJ		C	Wire holder(LWS3S2W)	ﾎﾙﾀﾞｰ
9	MSPRP3038FCZZ	AC	DJ	N	C	Drive shaft electrode spring	駆動軸ｱｰｽｽﾌﾟﾘﾝｸﾞ
10	RMŌTS0879FCZZ	BD	GN	N	B	Drum drive motor	ﾄﾞﾗﾑ駆動ﾓｰﾀ
11	LANGT1411FCZZ	AD	DJ	N	C	Drive PWB fixing angle	ﾄﾞﾗｲﾌﾞ基板取付けｱﾝｸﾞﾙ
12	CFRM−1061DS71	AV	FG	N	E	DR drive frame B sub	DR 駆動ﾌﾚｰﾑ B ｻﾌﾞ
13	PRNGP0110FCZZ	AA	DJ	N	C	Ring	ﾘﾝｸﾞ
14	NCPL−0056FCZZ	AF	DS	N	B	Drum joint cupling	ﾄﾞﾗﾑ連結ｶｯﾌﾟﾘﾝｸﾞ
15	VHPGP1A71L3−1	AG	DS	N	B	Photo sensor(GP1A71L3)	ﾌｫﾄｾﾝｻｰ
16	MLEVP0842FCZZ	AE	DS	N	C	Enpty detector lever	満杯検知ﾚﾊﾞｰ
18	XRESP80−08000	AA	DD		C	E type ring	E- ﾘﾝｸﾞ
19	LPiNS0096FCZZ	AB	DD		C	Pin(ϕ3-12)	ﾋﾟﾝ
21	CSFTZ2686DS51	AV	FG	N	E	DR drive shaft	DR 駆動ｼｬﾌﾄ
22	MSPRD3042FCZZ	AD	DJ	N	C	DV electrode spring	DV 接点ｽﾌﾟﾘﾝｸﾞ
23	MSPRD3041FCZZ	AD	DJ	N	C	GB electrode spring	GB 接点ｽﾌﾟﾘﾝｸﾞ
24	LPLTM6003FCZZ	AD	DJ	N	C	MC joint terminal plate	MC 接続端子ﾌﾟﾚｰﾄ
25	MSPRD3040FCZZ	AC	DJ	N	C	MC electrode spring	MC 接点ｽﾌﾟﾘﾝｸﾞ
27	CPWBF1526DS51	AP	EQ	N	C	LED DL PWB	LED DL 基板
28	XHBSE40P08000	AA	DD		C	Screw(4×8)	ﾋﾞｽ
29	RMŌTS0879FCNA	BD	GN	N	B	Drum drive motor BK	ﾄﾞﾗﾑ駆動ﾓｰﾀ BK
30	LHLDW1061FCZZ	AB	DD		C	Holder(HL-18-0)	ﾎﾙﾀﾞｰ
	(Unit)						
901	DUNT−7251DSZZ	BZ	TF	N	E	Drum drive unit(Without No.4,11,28)	ﾄﾞﾗﾑ駆動ﾕﾆｯﾄ(No.4,11,28除く)

23 ﾄﾞﾗﾑ駆動ﾕﾆｯﾄ (Drum drive unit)



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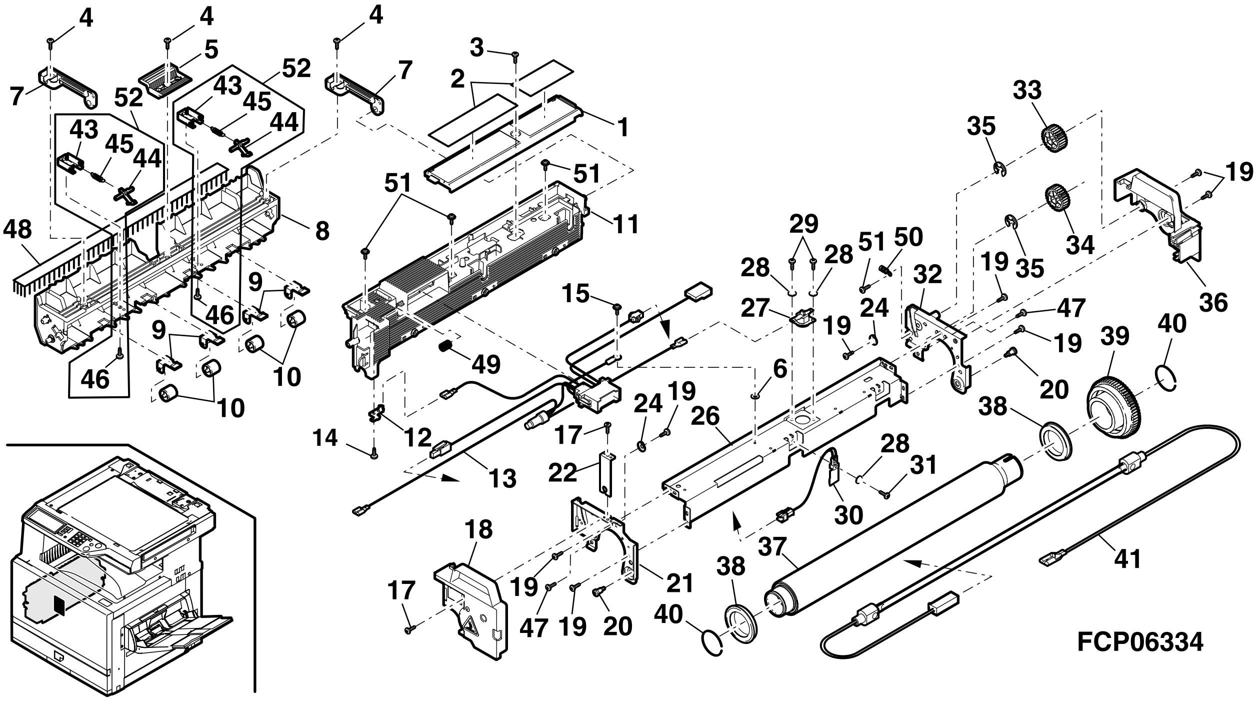
24 定着ﾕﾆｯﾄ 1(Fusing unit 1)

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION
		Ex.	Ja.			
1	PCŌVP1650FCZZ	AT	DX	N	C	Harness cover ﾊｰﾈｽｶﾊﾞｰ
2	TLABH4746FCZZ	AH	DX	N	C	Hiht temperature caution label 高温注意ﾗﾍﾞﾙ
3	XHBS230P12000	AA	DD		C	Screw(3×8) ﾋﾞｽ
4	XEBSD30P12000	AA	DD		C	Screw(3×12) ﾋﾞｽ
5	MLEVP0875FCZZ	AF	DS	N	C	Fusing Open/Shut lever 定着開閉ﾚﾊﾞｰ
6	LX-WZ0443FCZZ	AB	DD		C	Washer ｱｰｽ用ﾋﾗﾜｯｼｬｰ
7	MARMP0301FCZ1	AE	DJ	N	C	Holder rotation arm ﾎﾙﾀﾞｰ回転ｱｰﾑ
8	LHLDR1511FCZ1	BA	FX	N	C	Roller holder ﾛｰﾗｰﾎﾙﾀﾞｰ
9	MSPRP3056FCZZ	AF	DS	N	C	Delivery roller spring 排紙ｺﾛ板ﾊﾞﾈ
10	PCLR-0475FCZZ	AA	DJ	N	C	Delivery collar 排紙ｺﾛ
11	PCŌVP1636FCZ1	AW	EZ	N	C	Fusing enter cover 定着入紙ｶﾊﾞｰ
12	MSPRP3052FCZZ	AG	DS	N	C	Lamp electrode spring A ﾗﾝﾌﾟ電極 A ｽﾌﾟﾘﾝｸﾞ
13	DHAi-3353FCZZ	AY	FQ	N	C	Fusing upper harness (100V Series) 定着上ﾊｰﾈｽ
	DHAi-3399FCZZ	AY	FQ	N	C	Fusing upper harness (200V Series) 定着上ﾊｰﾈｽ
14	XEBSD30P06000	AA	DD		C	Screw(3×6) ﾋﾞｽ
15	XBPSD30P06KS0	AA	DD		C	Screw(3×6KS) ﾋﾞｽ
17	XHBS230P06000	AA	DD		C	Screw(3×6) ﾋﾞｽ
18	PCŌVP1637FCZZ	AN	EQ	N	C	Fusing fromt cover 定着前ｶﾊﾞｰ
19	XHBSD30P06000	AA	DD		C	Screw(3×6) ﾋﾞｽ
20	LX-BZ0736FCZZ	AB	DD		C	Screw DV 駆動ﾀﾞﾝﾋﾞｽ
21	LFRM-1069FCZZ	AL	EB	N	C	Fusing upper frame F 定着上ﾌﾚｰﾑ F
22	LHLDZ1513FCZZ	AD	DJ	N	C	Lamp holder F ﾗﾝﾌﾟﾎﾙﾀﾞｰ F
24	MSPRC3059FCZZ	AC	DJ	N	C	HR fixing spring HR 固定ｽﾌﾟﾘﾝｸﾞ
26	LPLTM5996FCZ1	AN	EG	N	C	Thermostat fixing plate ｻｰﾓｽﾀｯﾄ取付けﾌﾟﾚｰﾄ
27	RTHM-0022FCZZ	AN	EG		B	Thermostat(100V Only) ｻｰﾓｽﾀｯﾄ
	CTHM-0011FC01	AK	EB		B	Thermostat(Other) ｻｰﾓｽﾀｯﾄ
28	XWHSD30-05080	AA	DD		C	Washer ﾋﾗ ﾜｯｼｬ
29	XHBSD30P04000	AA	DD		C	Screw(3×4) ﾋﾞｽ
30	RDTCT0153FCZZ	AN	EQ	N	B	Thermistor ｻｰﾐｽﾀｰ
31	XHBSD30P10000	AA	DD		C	Screw(3×10) ﾋﾞｽ
32	CFRM-1070FC01	AP	EQ	N	C	Fusing upper frame R 定着上ﾌﾚｰﾑ R
33	NGERH1062FCZZ	AE	DS		B	DV idle gear(25T) DV ｱｲﾄﾞﾙｷﾞﾔ
34	NGERH0780FCZ1	AE	DS		B	Fusing idle gear(26TN) 定着ｱｲﾄﾞﾙｷﾞﾔ
35	XRESP70-08000	AA	DD		C	E type ring E- ﾘﾝｸﾞ
36	LHLDZ1512FCZZ	AR	EQ	N	C	Lamp holder R ﾗﾝﾌﾟﾎﾙﾀﾞｰ R
37	NRŌLR1395FCZZ	BN	HZ	N	A	Upper heat roller 上ﾋｰﾄﾛｰﾗ
38	NBRGY0646FCZZ	AS	EQ		B	Bearing ﾍﾞｱﾘﾝｸﾞ
39	NGERH1507FCZZ	AT	EZ	N	B	Fusing gear(60TWH) 定着ｷﾞﾔ
40	LSTPF0172FCZ1	AA	DJ		C	Roller stopper ﾛｰﾗｰｽﾄｯﾊﾟｰ
⚠ 41	RLMPU0672FCZZ	BA	FX	N	B	Upper heater lamp (100V) 上ﾋｰﾀｰﾗﾝﾌﾟ
⚠	RLMPU0668FCZZ	BA	FX	N	B	Upper heater lamp (120V) 上ﾋｰﾀｰﾗﾝﾌﾟ
⚠	RLMPU0669FCZZ	BA	FX	N	B	Upper heater lamp (200V) 上ﾋｰﾀｰﾗﾝﾌﾟ
43	LPLTM6109FCZZ	AD	DJ	N	C	Separator pawl plate (Japan only) 剥離爪ﾌﾟﾚｰﾄ
44	PTME-0276FCZ1	AK	EB		A	Separator pawl (Japan only) 剥離爪
45	MSPRT2414FCZZ	AC	DJ		B	Separator pawl spring (Japan only) 剥離爪ｽﾌﾟﾘﾝｸﾞ
46	XHBSD30P06000	AA	DD		C	Screw(3×6) (Japan only) ﾋﾞｽ
47	XHBS240P08000	AB	DD		C	Screw(4×8S) ﾋﾞｽ
48	PBRSR0224FCZZ	AH	DX	N	B	Fusing discharge brush 定着除電ﾌﾞﾗｼ
49	MSPRC3160FCZZ	AC	DJ	N	C	Open/Shut presure spring 開閉圧接ｽﾌﾟﾘﾝｸﾞ
50	MSPRT3190FCZZ	AF	DS	N	C	Discharge presure spring 除電圧接ｽﾌﾟﾘﾝｸﾞ
51	LX-BZ3006SC0S	AA	DD		C	Screw(3×6) ﾋﾞｽ
52	CPLTM6109DS51	AP	EQ		E	Separator pawl plate unit (Japan only) 剥離爪ﾌﾟﾚｰﾄﾕﾆｯﾄ
	(Unit)					
⚠ 901	DUNTW7189DSZZ	CG	UM	N	E	Fusing unit(Include Block 25) (100V Series) 定着ﾕﾆｯﾄ(ﾌﾞﾛｯｸ 25 含む)
⚠	DUNTW7189DS11	CG	UM	N	E	Fusing unit(Include Block 25) (120V Series) 定着ﾕﾆｯﾄ(ﾌﾞﾛｯｸ 25 含む)
⚠	DUNTW7189DS12	CG	UM	N	E	Fusing unit(Include Block 25) (200V Series) 定着ﾕﾆｯﾄ(ﾌﾞﾛｯｸ 25 含む)

24 定着ﾕﾆｯﾄ 1(Fusing unit 1)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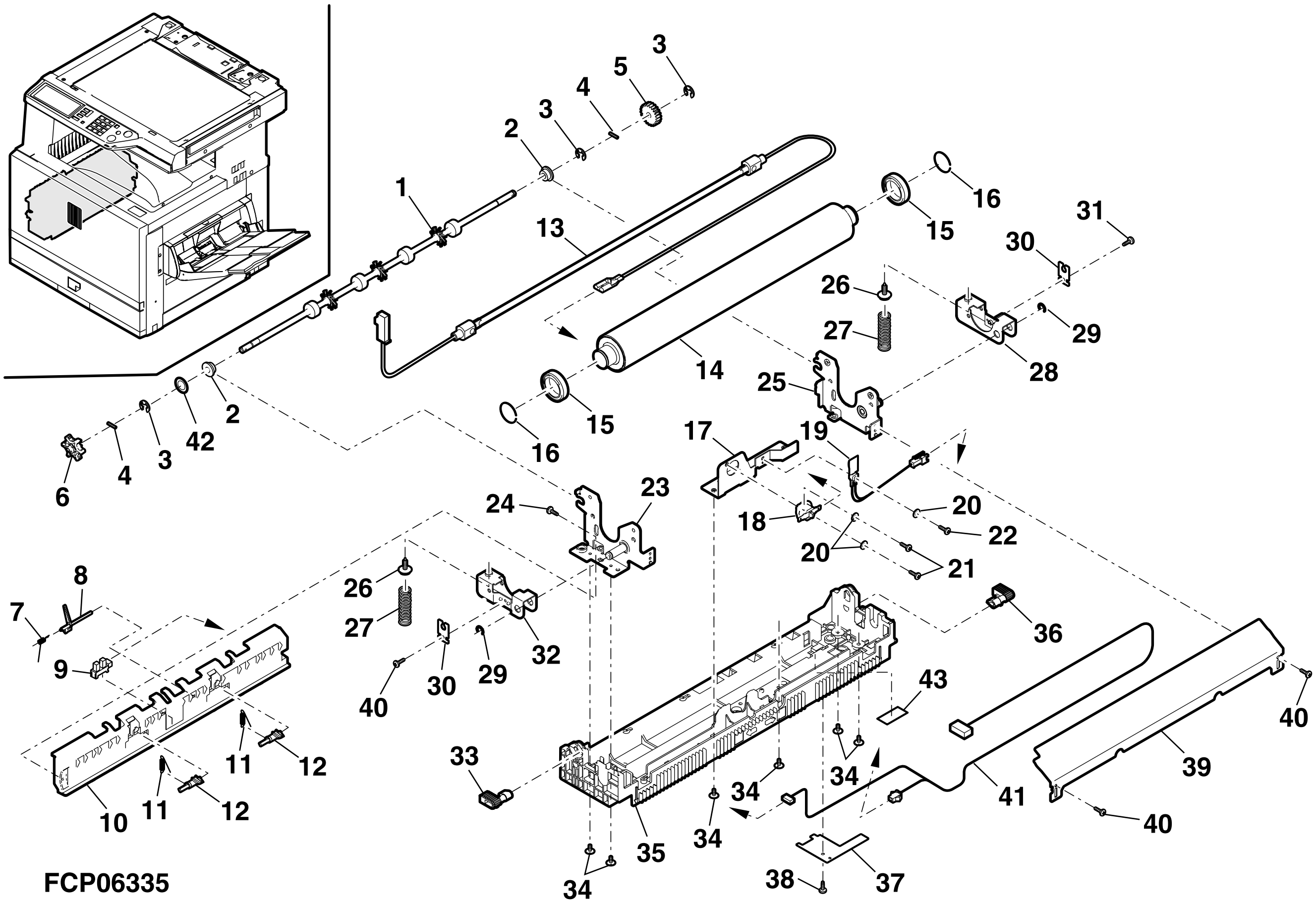
25 定着ﾕﾆｯﾄ 2(Fusing unit 2)

NO.	PARTS CODE	PRICE RANK Ex.	PRICE RANK Ja.	NEW MARK	PART RANK	DESCRIPTION
1	NRŌLR1394FCZ1	AT	EZ	N	C	Delivery roller 排紙ﾛ-ﾗ
2	NBRGP0012QSZZ	AC	DJ		C	Bearing 軸受ｹ
3	XRESP50−06000	AA	DD		C	E type ring E-ﾘﾝｸﾞ
4	LPiNS0133FCZZ	AA	DD		C	Pin(ϕ2-10) ﾍｲｺｳﾋﾟﾝ
5	NGERH0866FCZZ	AC	DD		C	Gear(22T) ｷﾞﾔ
6	JKNBZ0143FCZZ	AD	DJ	N	C	Delivery roller knob 排紙ﾛｰﾗｰﾉﾌﾞ
7	MSPRD3057FCZZ	AC	DJ	N	B	Actuator spring ｱｸﾁﾕｴ-ﾀｽﾌﾟﾘﾝｸﾞ
8	MLEVP0848FCZZ	AD	DJ	N	B	Delivery actuator 排紙ｱｸﾁﾕｴ-ﾀ
9	VHPGP1A71L3−1	AG	DS	N	B	Photo sensor(GP1A71L3) ﾌｫﾄｾﾝｻｰ
10	LPLTP5998FCZZ	BB	GD	N	C	Lower pawl fixing plate 下爪取付ｹﾌﾟﾚｰﾄ
11	MSPRT2414FCZZ	AC	DJ		B	Separator pawl spring 剥離爪ｽﾌﾟﾘﾝｸﾞ
12	PTME−0276FCZ1	AK	EB		A	Fusing separator pawl lower 定着剥離爪下
⚠ 13	RLMPU0673FCZZ	AZ	FQ	N	B	Lower heater lamp (100V) 下ﾋｰﾀｰﾗﾝﾌﾟ
⚠	RLMPU0670FCZZ	AZ	FQ	N	B	Lower heater lamp (120V) 下ﾋｰﾀｰﾗﾝﾌﾟ
⚠	RLMPU0671FCZZ	AZ	FQ	N	B	Lower heater lamp (200V) 下ﾋｰﾀｰﾗﾝﾌﾟ
14	NRŌLR1396FCZZ	BH	HV	N	A	Lower heat roller 下ﾋ-ﾄﾛ-ﾗ
15	NBRGY0681FCZZ	AX	FG	N	B	Bearing ﾍﾞｱﾘﾝｸﾞ
16	MSPRD3058FCZZ	AC	DJ	N	C	Roller stopper 20 ﾛ-ﾗｽﾄｯﾊﾟ 20
17	CPLTM5997FC01	AL	EB	N	C	Lower thermistor fixing plate 下ｻｰﾐｽﾀ取付ｹﾌﾟﾚｰﾄ
18	RTHM−0021FCZZ	AN	EG		B	Thermostat ｻｰﾓｽﾀｯﾄ
19	RDTCT0153FCZZ	AN	EQ	N	B	Thermistor ｻｰﾐｽﾀｰ
20	XWHSD30−05080	AA	DD		C	Washer ﾋﾗ ﾜｯｼｬ
21	XHBSD30P04000	AA	DD		C	Screw(3×4) ﾋﾞｽ
22	XHBSD30P10000	AA	DD		C	Screw(3×10) ﾋﾞｽ
23	CFRM−1071FC01	AL	EB	N	C	Fusing upper frame F 定着上ﾌﾚｰﾑ F
24	XEBSD30P08000	AA	DD		C	Screw(3×8) ﾋﾞｽ
25	CFRM−1072FC01	AL	EB	N	C	Fusing lower frame R 定着下ﾌﾚｰﾑ R
26	LX−BZ0924FCZZ	AD	DJ		C	Screw 加圧調整ﾋﾞｽ
27	MSPRC3054FCZZ	AE	DJ	N	C	Pressure spring 加圧ｽﾌﾟﾘﾝｸﾞ
28	MLEVF0846FCZ1	AE	DS	N	C	Pressure lever R 加圧ﾚﾊﾞ-R
29	PRNGP0109FCZZ	AA	DJ	N	C	Ring ﾘﾝｸﾞ
30	LHLDZ1399FCZZ	AC	DJ		C	Upper lamp holder F 上ﾗﾝﾌﾟﾎﾙﾀﾞｰF
31	XHBSD30P06000	AA	DD		C	Screw(3×6) ﾋﾞｽ
32	MLEVF0845FCZ1	AE	DS	N	C	Pressure lever F 加圧ﾚﾊﾞ-F
33	MLEVP0786FCZZ	AC	DD		C	Pressure adjust lever F 圧力調整ﾚﾊﾞｰF
34	LX−BZ3006SC0S	AA	DD		C	Screw(3×6) ﾋﾞｽ
35	PCŌVP1638FCZZ	AZ	FX	N	C	Fusing lower cover 定着下ｶﾊﾞｰ
36	MLEVP0787FCZZ	AC	DD		C	Pressure adjust lever R 圧力調整ﾚﾊﾞｰR
37	PSHEP5015FCZZ	AD	DJ	N	C	Harness fixing sheet ﾊｰﾈｽ押えｼｰﾄ
38	XEBSD30P06000	AA	DD		C	Screw(3×6) ﾋﾞｽ
39	PGiDH1968FCZZ	AK	EB	N	C	Fusing front guide PG 定着前ﾍﾟｰﾊﾟｰｶﾞｲﾄﾞ
40	XHBS230P06000	AA	DD		C	Screw(3×6) ﾋﾞｽ
41	DHAi−3354FC11	AH	DX	N	C	Fusing lower harness 定着下ﾊｰﾈｽ
42	LX−WZ0448FCZZ	AB	DD	N	C	Washer ﾎﾟﾘｽﾗｲﾀﾞｰ
43	PSHEP5127FCZZ	AC	DJ	N	C	Fusing lower mylar 定着下ﾏｲﾗｰ
	(Unit)					
⚠ 901	DUNTW7189DSZZ	CG	UM	N	E	Fusing unit(Include Block 24) (100V Series) 定着ﾕﾆｯﾄ(ﾌﾞﾛｯｸ24含む)
⚠	DUNTW7189DS11	CG	UM	N	E	Fusing unit(Include Block 24) (120V Series) 定着ﾕﾆｯﾄ(ﾌﾞﾛｯｸ24含む)
⚠	DUNTW7189DS12	CG	UM	N	E	Fusing unit(Include Block 24) (200V Series) 定着ﾕﾆｯﾄ(ﾌﾞﾛｯｸ24含む)

26 定着駆動ﾕﾆｯﾄ(Fusing drive unit)

NO.	PARTS CODE	PRICE RANK Ex.	PRICE RANK Ja.	NEW MARK	PART RANK	DESCRIPTION
1	CPLTM5999FC01	AL	EB	N	C	Motor fixing plate ﾓｰﾀ取付ｹﾌﾟﾚｰﾄ
2	XHBSE40P08000	AA	DD		C	Screw(4×8) ﾋﾞｽ
3	RMŌTS0884FCZZ	BA	FX	N	B	Fusing motor 定着ﾓｰﾀ
4	XHBSD30P06000	AA	DD		C	Screw(3×6) ﾋﾞｽ
5	MSPRT3063FCZZ	AC	DJ	N	C	Drive joint spring 駆動連結ｽﾌﾟﾘﾝｸﾞ
6	NGERH1305FCZZ	AK	DX		B	Gear(H59/25T) ｷﾞﾔ
7	XRESP70−08000	AA	DD		C	E type ring E-ﾘﾝｸﾞ
8	CPLTM6000FC01	AK	EB	N	C	Drive joint plate 駆動連結ﾌﾟﾚｰﾄ
9	NGERH1509FCZZ	AE	DJ	N	A	Gear(35T) ｷﾞﾔ
10	PCLR−0477FCZZ	AE	DJ	N	C	HR collar HR ｶﾗ-
11	PRNGP0077FCZZ	AA	DD		C	Ring(E7) ﾘﾝｸﾞ

25 定着ﾕﾆｯﾄ 2(Fusing unit 2)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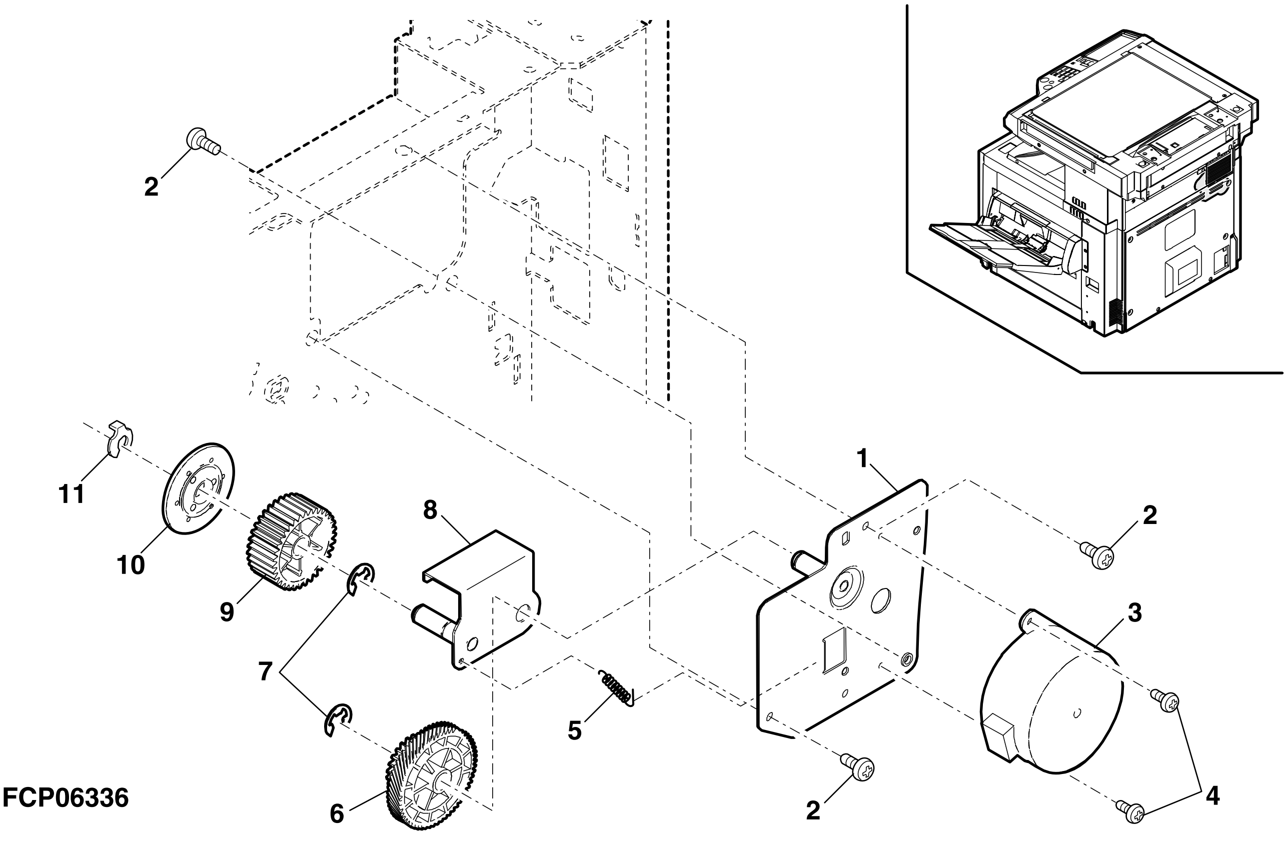
26 定着駆動ﾕﾆｯﾄ (Fusing drive unit)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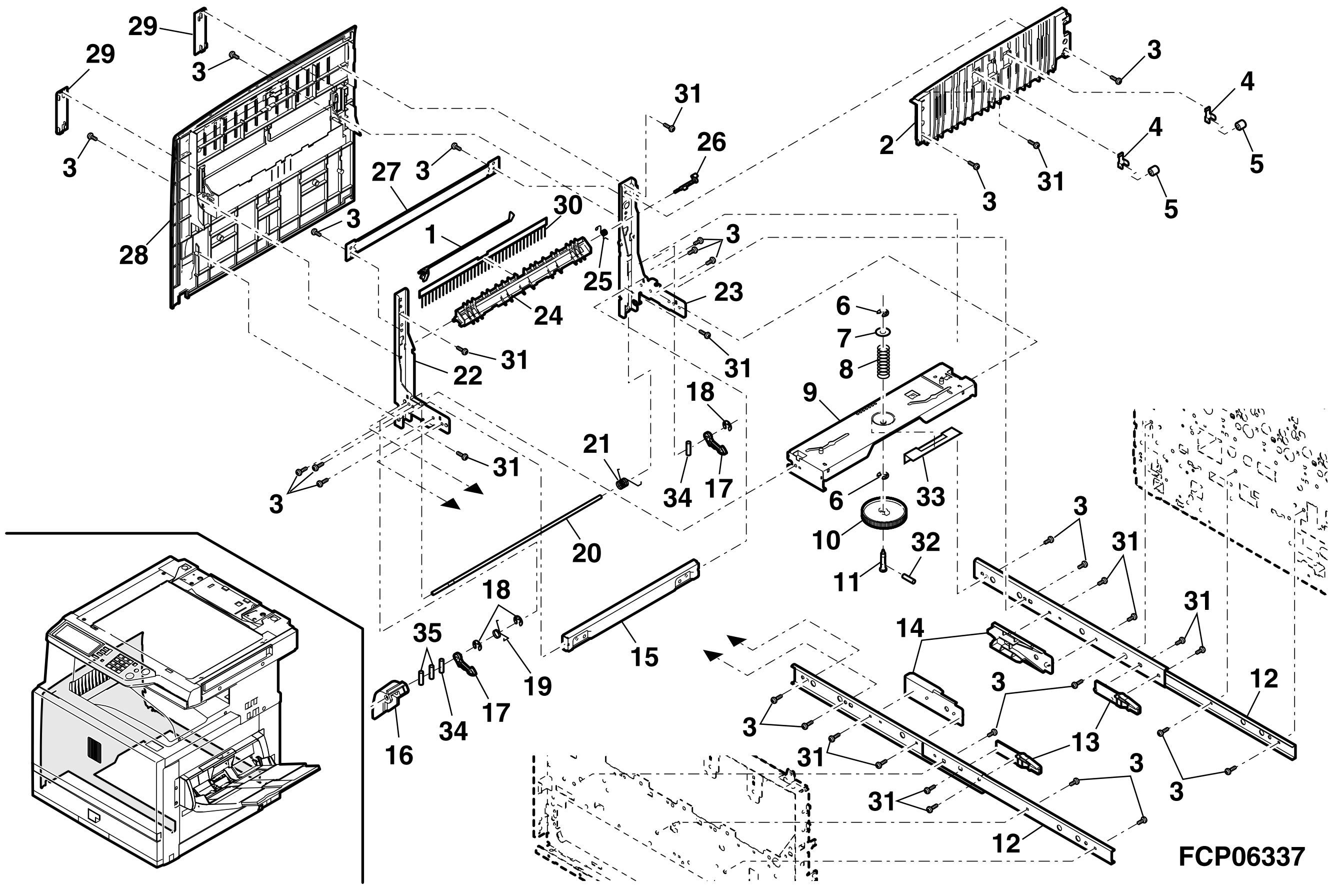
27 左ﾄﾞｱ (Left door)

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION		
		Ex.	Ja.					
1	MLEVP0863FCZZ	AE	EB	N	C	Full actuator FU		満杯ｱｸﾁｭｴｰﾀ FU
2	PGiDM1970FCZZ	BB	EQ	N	C	Delivery guide upper		排紙ｶﾞｲﾄﾞ上
3	XHBSE40P08000	AA	DD		C	Screw(4×8)		ﾋﾞｽ
4	MSPRP3056FCZZ	AF	DS	N	C	Delivery roller spring		排紙ｺﾛ板ﾊﾞﾈ
5	PCLR-0475FCZZ	AA	DJ	N	C	Delivery collar		排紙ｺﾛ
6	XRESP70-08000	AA	DD		C	E type ring		E- ﾘﾝｸﾞ
7	LX-WZ0042FCZ1	AA	DD		C	Washer		ﾋﾗﾜｯｼｬｰ
8	MSPRC2654FCZ1	AB	DJ		C	Separator pressure spring		離接加圧ｽﾌﾟﾘﾝｸﾞ
9	CSTYM0294FC01	AS	EQ	N	C	Delivery stay		排紙ｽﾃｰ
10	JKNBZ0144FCZZ	AE	DS	N	C	Roller knob		ﾀﾞｲﾛｰﾗｰﾉﾌﾞ
11	LX-BZ0944FCZ1	AH	DS	N	C	Screw		ﾋﾞｽ
12	MSLi-0140FCZZ	BA	FX	N	C	Slide rail		ｽﾗｲﾄﾞﾚ-ﾙ
13	LFRM-1079FCZZ	AF	DS	N	C	Transfer slide FU		転写ｽﾗｲﾄﾞ FU
14	LFRM-1080FCZZ	AH	DX	N	C	Transfer slide PU		転写ｽﾗｲﾄﾞ PU
15	LSTYM0298FCZZ	AH	DX	N	C	Delivery stay lower		排紙ｽﾃｰ下
16	MLEVP0781FCZZ	AD	DJ		C	Left door release lever		左ﾄﾞｱ解除ﾚﾊﾞｰ
17	PTME-0290FCZZ	AD	DJ	N	C	Delivery lock pawl		排紙ﾛｯｸ爪
18	XRESP50-06000	AA	DD		C	E type ring		E- ﾘﾝｸﾞ
19	MSPRD3102FCZZ	AC	DJ	N	C	Lock spring F		ﾛｯｸｽﾌﾟﾘﾝｸﾞ F
20	NSFTZ2697FCZZ	AN	EQ	N	C	Delivery lock shaft		排紙ﾛｯｸｼｬﾌﾄ
21	MSPRD3103FCZZ	AD	DJ	N	C	Lock spring R		ﾛｯｸｽﾌﾟﾘﾝｸﾞ R
22	LFRM-1073FCZ1	AS	EG	N	C	Delivery frame F		排紙ﾌﾚｰﾑ F
23	LFRM-1074FCZZ	AS	EQ	N	C	Delivery frame R		排紙ﾌﾚｰﾑ R
24	PGiDM1969FCZZ	AN	FQ	N	B	Reverse gate		反転ｹﾞ-ﾄ
25	MSPRD3163FCZZ	AC	DJ	N	C	Gate earth spring		ｹﾞｰﾄｱｰｽｽﾌﾟﾘﾝｸﾞ
26	MARMP0298FCZZ	AC	DJ	N	C	Reverse gate arm		反転ｹﾞｰﾄｱｰﾑ
27	LSTYM0301FCZZ	AF	DS	N	C	Delivery stay upper		排紙ｽﾃｰ上
28	GCAB-0981FCZ5	AZ	FX	N	D	FU delivery cabinet	(100V Series)	FU 排紙ｷｬﾋﾞ
	GCAB-0981FCZZ	BB	GD	N	D	FU delivery cabinet	(200V Series)	FU 排紙ｷｬﾋﾞ
29	PCŌVP1656FCZZ	AG	DX	N	D	FU delivery enter cover		FU 排紙口ｶﾊﾞｰF
30	PBRSR0219FCZ1	AG	DX	N	B	Discharge brush		除電ﾌﾞﾗｼ
31	XEBSD40P08000	AA	DD		C	Screw(4×8)		ﾋﾞｽ
32	LPiNS0096FCZZ	AB	DD		C	Pin(φ3-12)		ﾋﾟﾝ
33	PSHEZ5074FCZZ	AC	DJ	N	C	Delivery edge protect sheet		排紙ｴｯｼﾞ保護ｼｰﾄ
34	LPiNS0327FCZZ	AC	DJ		C	Pin(φ2-10)		ﾋﾟﾝ
35	LPiNS0320FCZZ	AB	DJ		C	Spring pin(φ2-8)		ｽﾌﾟﾘﾝｸﾞﾋﾟﾝ

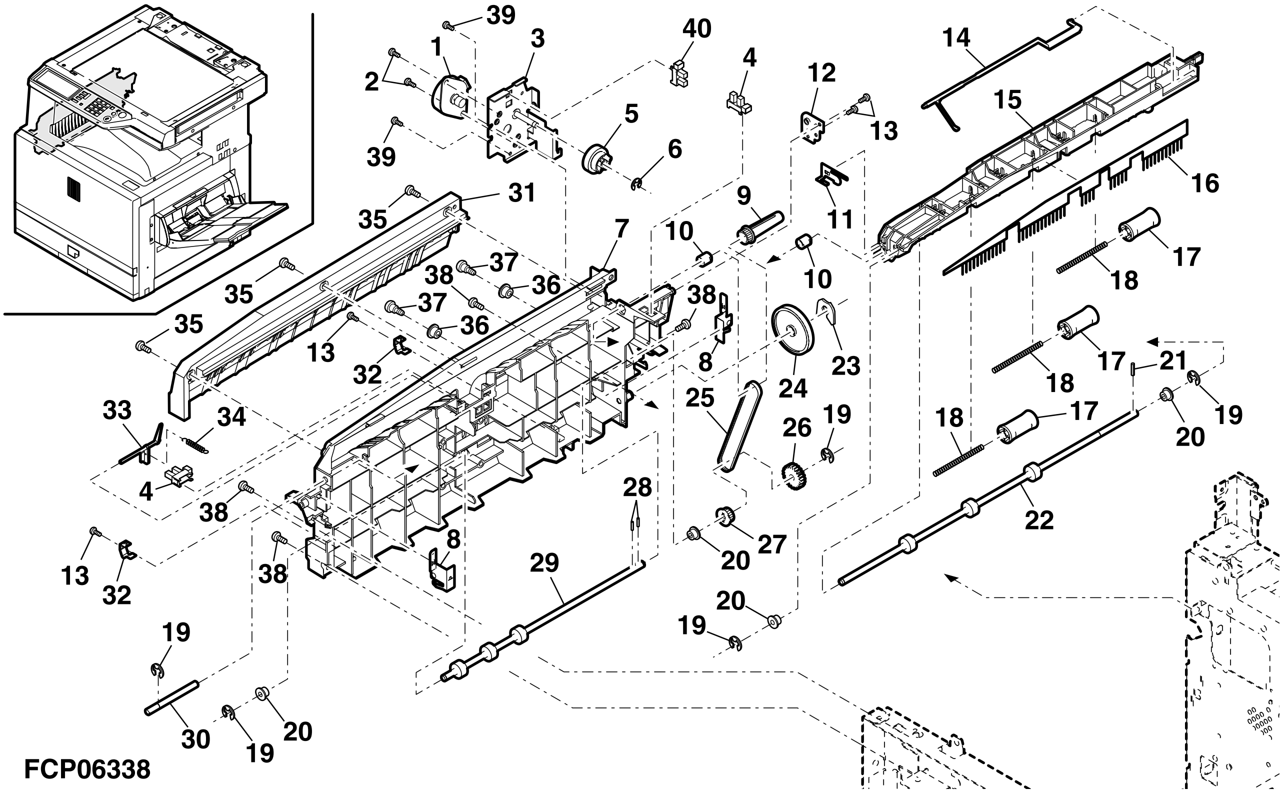
27 左ﾄﾞｱ (Left door)



28 FD 排紙ﾕﾆｯﾄ (FD delivery unit)

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION	
		Ex.	Ja.				
1	RMŌTS0890FCZZ	BA	FX	N	B	Slide motor	ｽﾗｲﾄﾞﾓｰﾀ
2	XHBSD30P06000	AA	DD		C	Screw(3×6)	ﾋﾞｽ
3	CPLTM6017FC01	AG	DX	N	C	Slide motor fixing plate	ｽﾗｲﾄﾞﾓｰﾀ取付けﾌﾟﾚｰﾄ
4	VHPGP1A71L3−1	AG	DS	N	B	Photo sensor(GP1A71L3)	ﾌｫﾄｾﾝｻｰ
5	NGERH1531FCZZ	AD	DJ	N	C	Shifter gear(24/50)	ｼﾌﾀｰｷﾞﾔ
6	XRESP40−06000	AA	DD		C	E type ring	E- ﾘﾝｸﾞ
7	PGiDM1971FCZZ	AY	FQ	N	C	FD delivery guide IN	FD 排紙ｶﾞｲﾄﾞ IN
8	MSPRP3082FCZZ	AF	DS	N	C	FD earth plate spring B	FD ｱｰｽ板 B ｽﾌﾟﾘﾝｸﾞ
9	NPLYZ0402FCZZ	AD	DJ	N	C	Offset pulley(22T)	ｵﾌｾｯﾄﾌﾟｰﾘｰ
10	NBRGC0683FCZZ	AC	DJ	N	C	Bearing	軸受け
11	MSPRP3081FCZZ	AF	DS	N	C	FD earth plate spring A	FD ｱｰｽ板 A ｽﾌﾟﾘﾝｸﾞ
12	LPLTM6016FCZZ	AC	DJ	N	C	Pulley fulcrum plate	ﾌﾟｰﾘｰ支点ﾌﾟﾚｰﾄ
13	XEBSE30P06000	AA	DD		C	Screw(3×6)	ﾋﾞｽ
14	MLEVP0851FCZZ	AE	DS	N	C	FD enpty actuator	FD 満杯ｱｸﾁｭｴ - ﾀ
15	PGiDM1972FCZZ	AY	FQ	N	C	FD delivery PG	FD 排紙ﾍﾟｰﾊﾟｰｶﾞｲﾄﾞ
16	PBRSR0218FCZ1	AH	DX	N	B	FD discharge brush	FD 除電ﾌﾞﾗｼ
17	NRŌLP1432FCZZ	AE	DJ	N	C	Belt support lever roller	FD 排紙従動ﾛｰﾗ
18	MSPRT3064FCZZ	AD	DJ	N	C	FD drive belt roller spring	FD 排紙ｺﾛｽﾌﾟﾘﾝｸﾞ
19	XRESP50−06000	AA	DD		C	E type ring	E- ﾘﾝｸﾞ
20	NBRGC0188FCZZ	AB	DD		C	Bearing	軸受け
21	LPiNS0258FCZZ	AA	DD		C	Spring pin(φ3-10)	ｽﾌﾟﾘﾝｸﾞﾋﾟﾝ
22	NRŌLR1398FCZ1	AR	EQ	N	C	FD delivery roller A	FD 排紙ﾛ - ﾗ A
23	PRNGP0077FCZZ	AA	DD		C	Ring(E7)	ﾘﾝｸﾞ
24	NGERH0484FCZZ	AB	DD		C	Gear(46T)	ｷﾞﾔ
25	NBLTH0374FCZZ	AE	DJ	N	C	FD delivery belt	FD 排紙ﾍﾞﾙﾄ
26	NGERH0866FCZZ	AC	DD		C	Gear(22T)	ｷﾞﾔ
27	NPLYZ0146FCZZ	AB	DD		C	Pulley(22MXL)	ﾌﾟｰﾘｰ
28	LPiNS0165FCZZ	AB	DD		C	Pin(φ2-8)	ﾍｲｺｳﾋﾟﾝ
29	NRŌLR1399FCZ1	AR	EQ	N	C	FD delivery roller B	FD 排紙ﾛ - ﾗ B
30	NSFTZ2713FCZZ	AK	DX	N	C	FD slide shaft	FD ｽﾗｲﾄﾞｼｬﾌﾄ
31	PGiDM2007FCZZ	AP	EQ	N	C	FD delivery guide OUT	FD 排紙ｶﾞｲﾄﾞ OUT
32	LPLTM6073FCZZ	AC	DJ	N	C	FD fusing presure plate	FD 定着圧接ﾌﾟﾚｰﾄ
33	MLEVP0850FCZZ	AG	DX	N	C	FD delivery actuator	FD 排紙ｱｸﾁｭｴ - ﾀ
34	MSPRT3110FCZ1	AC	DJ	N	C	FD Delivery actuator spring	FD 排紙ｱｸﾁｭｴｰﾀｽﾌﾟﾘﾝｸﾞ
35	XEBSE40P08000	AA	DD		C	Screw(4×8)	ﾋﾞｽ
36	PCLR−0479FCZZ	AC	DJ	N	C	FD slide collar	FD ｽﾗｲﾄﾞｶﾗ -
37	LX−BZ0840FCZZ	AC	DD		C	Screw	ﾗｯｸ固定ﾋﾞｽ
38	XHBSE40P08000	AA	DD		C	Screw(4×8)	ﾋﾞｽ
39	XEBSD30P08000	AA	DD		C	Screw(3×8)	ﾋﾞｽ
40	VHPGP1A71L3−1	AG	DS	N	B	Photo sensor(GP1A71L3)	ﾌｫﾄｾﾝｻｰ
	(Unit)						
901	DUNT−7193DSZZ	BG	GX	N	E	FD delivery unit(Without No.1,2,3,5,6,38,39,40) FD 排紙ﾕﾆｯﾄ (No.1,2,3,5,6,38,39,40 除く)	

28 FD 排紙ﾕﾆｯﾄ (FD delivery unit)



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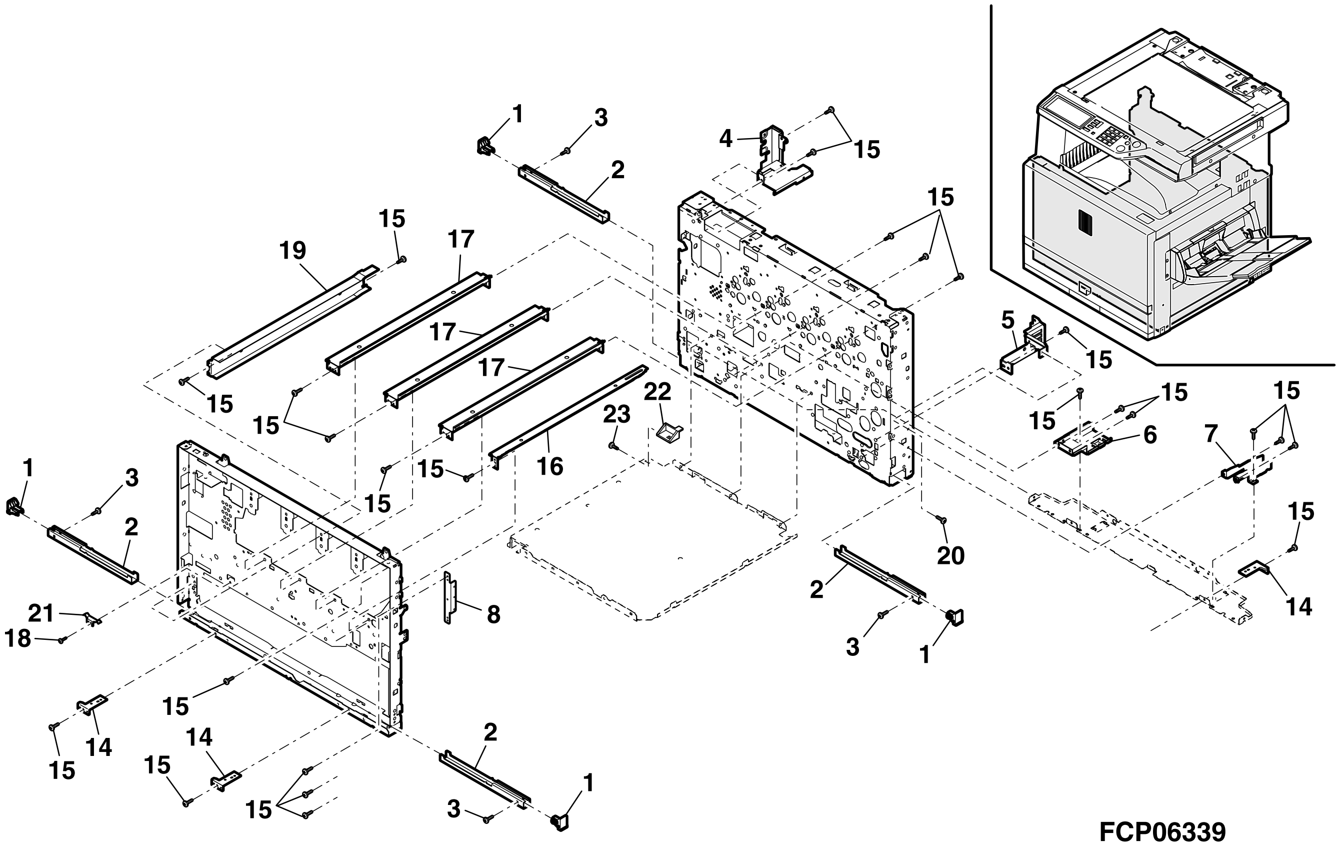
29 ﾌﾚｰﾑ 1(Frame 1)

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION	
		Ex.	Ja.				
1	PCAPH0082FCZZ	AD	DJ	N	B	handle cap	ﾊﾝﾄﾞﾙｷｬｯﾌﾟ
2	JHNDM0163FCZ1	AG	DX	N	C	Handdle N	ﾊﾝﾄﾞﾙ N
3	XEBSE30P06000	AA	DD		C	Screw(3×6)	ﾋﾞｽ
4	LPLTM6100FCZZ	AM	EG	N	C	Joint support plate	連結補強ﾌﾟﾚｰﾄ
5	LPLTM6093FCZZ	AM	EG	N	C	Rear exterior fixing plate	後ｷｬﾋﾞ取付けﾌﾟﾚｰﾄ
6	LANGF1422FCZZ	AG	DS	N	C	Rear angle L	後端ｱﾝｸﾞﾙ L
7	LANGF1421FCZZ	AF	DS	N	C	Rear angle R	後端ｱﾝｸﾞﾙ R
8	LPLTM6097FCZZ	AD	DJ	N	C	MF fixing plate F	手差し取付け板 F
14	PCOVP1634FCZZ	AF	DS	N	C	MFP cover B	MFP ｶﾊﾞｰB
15	XHBSE40P08000	AA	DD		C	Screw(4×8)	ﾋﾞｽ
16	CPLTM5974FC01	AH	DX	N	C	Process guide plate K	ﾌﾟﾛｾｽｶﾞｲﾄﾞﾌﾟﾚｰﾄ K
17	CPLTM5975FC01	AL	EB	N	C	Process guide plate C	ﾌﾟﾛｾｶﾞｲﾄﾞｽﾌﾟﾚｰﾄ C
18	XHBSE30P08000	AA	DD		C	Screw(3×8)	ﾋﾞｽ
19	LRALM0202FCZZ	AN	EG	N	C	Caseette rail L	ｶｾｯﾄﾚｰﾙ左
20	XHBSD40P06000	AA	DD		C	Screw(4×6)	ﾋﾞｽ
21	MSPRP3164FCZZ	AD	DJ	N	C	Earth spring	ｱｰｽｽﾌﾟﾘﾝｸﾞ
22	LHLDZ1546FCZZ	AC	DJ	N	C	Lock switch protect holder	ﾛｯｸｽｲｯﾁ保護ﾎﾙﾀﾞｰ
23	XEBSD30P08000	AA	DD		C	Screw(3×8)	ﾋﾞｽ

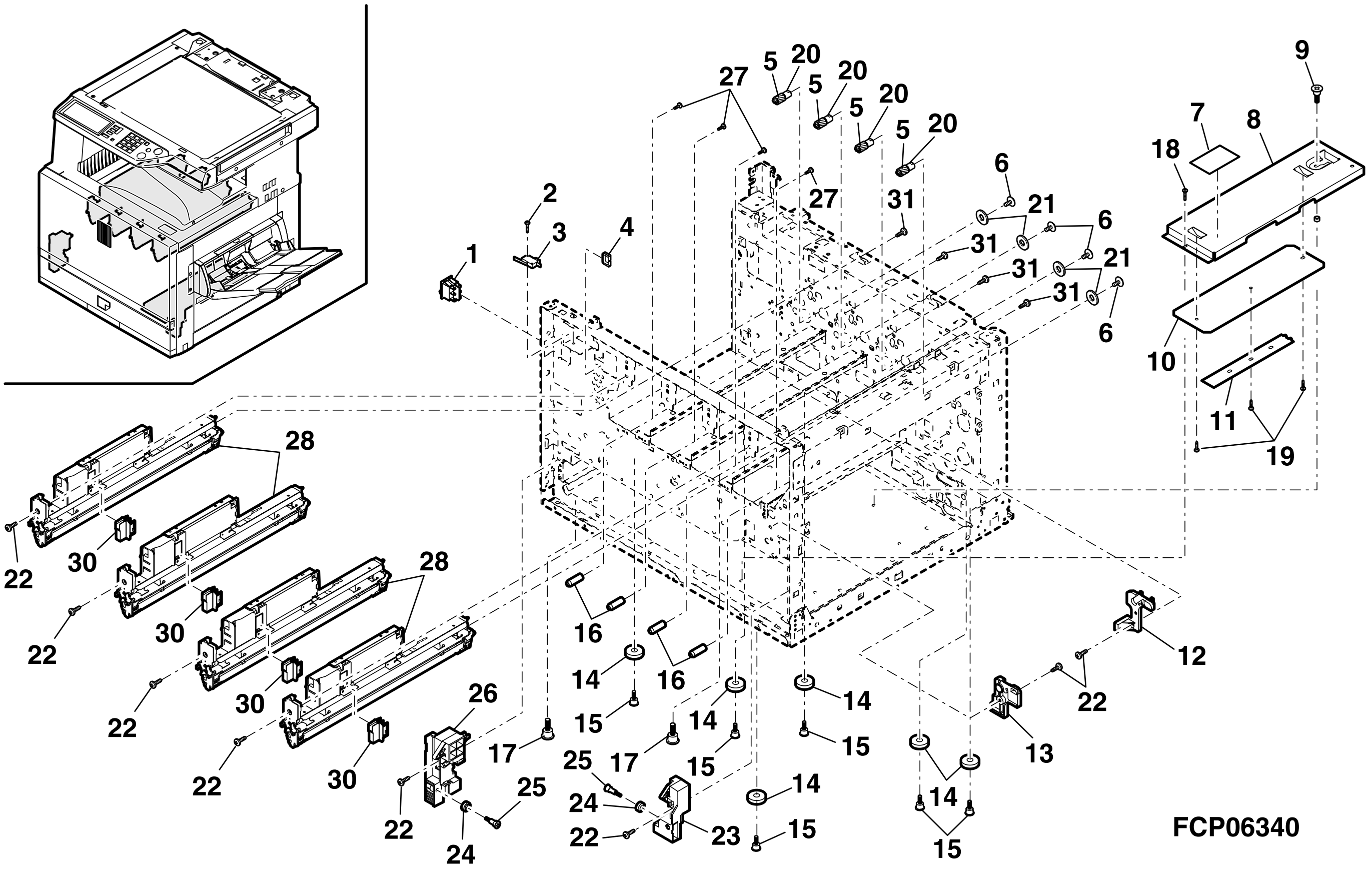
29 ﾌﾚｰﾑ 1(Frame 1)



30 ﾌﾚｰﾑ 2(Frame 2)

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION		
		Ex.	Ja.					
1	QSW-C1390QCZZ	AN	EQ		B	Power switch(LLN35C1)		電源ｽｲｯﾁ
2	XHBSD30P14000	AA	DD		C	Screw(3×14)		ﾋﾞｽ
3	QSW-M0502FCZZ	AH	DX		B	Door switch(AM51632C531)		ﾄﾞｱｽｲｯﾁ
4	LHLDW1152FCZZ	AC	DJ		C	Bushing(EH-14)		ﾌﾞｯｼｭ
5	NGERH1530FCZ1	AK	EB	N	C	DV drive gear(21T)		現像駆動ｷﾞﾔ
6	LX-BZ0071FCZZ	AA	DD		C	Screw		ﾋﾞｽ
7	TCAUH1035FCZZ	AC	DJ		C	HT caution label	(Japan only)	ｺｳｵﾝﾁｭｳｲﾗﾍﾞﾙ
8	PCŌVP1654FCZZ	AM	EG		C	T heater cover	(Japan only)	Tﾋｰﾀｰｶﾊﾞｰ
9	LX-BZ0959FCZZ	AC	DD	N	C	Screw		ﾋﾞｽ
10	LPLTM6089FCZZ	AK	DX	N	C	Heater fixing plate	(Japan only)	ﾋｰﾀｰﾄﾘﾂｹﾊﾞﾝ
11	RHETP0084FCZZ	AS	EQ		C	Dehumidify heater	(Japan only)	除湿ﾋｰﾀｰ
12	PGiDM1992FCZZ	AD	DJ	N	C	PS insert guide R		PS 挿入ｶﾞｲﾄ R
13	PGiDM1991FCZZ	AE	DJ	N	C	PS insert guide F		PS 挿入ｶﾞｲﾄ F
14	GLEGG0075FCZZ	AE	DJ		C	Rubber foot		ｺﾞﾑｱｼ
15	LX-BZ0898FCZZ	AC	DD		C	Screw		ﾋﾞｽ
16	LBŌSZ2114FCZZ	AK	EB	N	C	Process fulcrum boss		ﾌﾟﾛｾｽ位置決めﾎﾞｽ
17	LX-BZ0855FCZZ	AC	DD		C	Screw		ﾋﾞｽ
18	XHBSD30P06000	AA	DD		C	Screw(3×6)	(Japan only)	ﾋﾞｽ
19	XHBSE30P08000	AA	DD		C	Screw(3×8)	(Japan only)	ﾋﾞｽ
20	NSFTZ2685FCZ1	AL	EB	N	C	DV gear shaft		現像ｷﾞﾔｼｬﾌﾄ
21	XWHSD40-08100	AA	DD		C	Washer		ﾋﾗ ﾜｯｼｬ
22	XHBSE40P08000	AA	DD		C	Screw(4×8)		ﾋﾞｽ
23	PCŌVP1660FCZZ	AM	EG	N	C	Caseette cover R		ｶｾｯﾄｶﾊﾞｰR
24	PCLR-0441FCZZ	AK	DX		C	collar		ｺﾛ
25	LX-BZ0960FCZZ	AC	DD		C	Screw		ﾋﾞｽ
26	PCŌVP1659FCZZ	AK	DX	N	C	Caseette cover L		ｶｾｯﾄｶﾊﾞｰL
27	XBBSD30P08000	AA	DD		C	Screw(3×8)		ﾋﾞｽ
28	DUNT-7272DSZZ	CU	VZ	N	E	LED exposure unit		LED 露光ﾕﾆｯﾄ
30	PCŌVP1700FCZZ	AG	DX	N	C	Connector cover		ｺﾈｸﾀｶﾊﾞｰ
31	XEBSD40P08000	AA	DD		C	Screw(4×8)		ﾋﾞｽ

30 ﾌﾚｰﾑ 2(Frame 2)



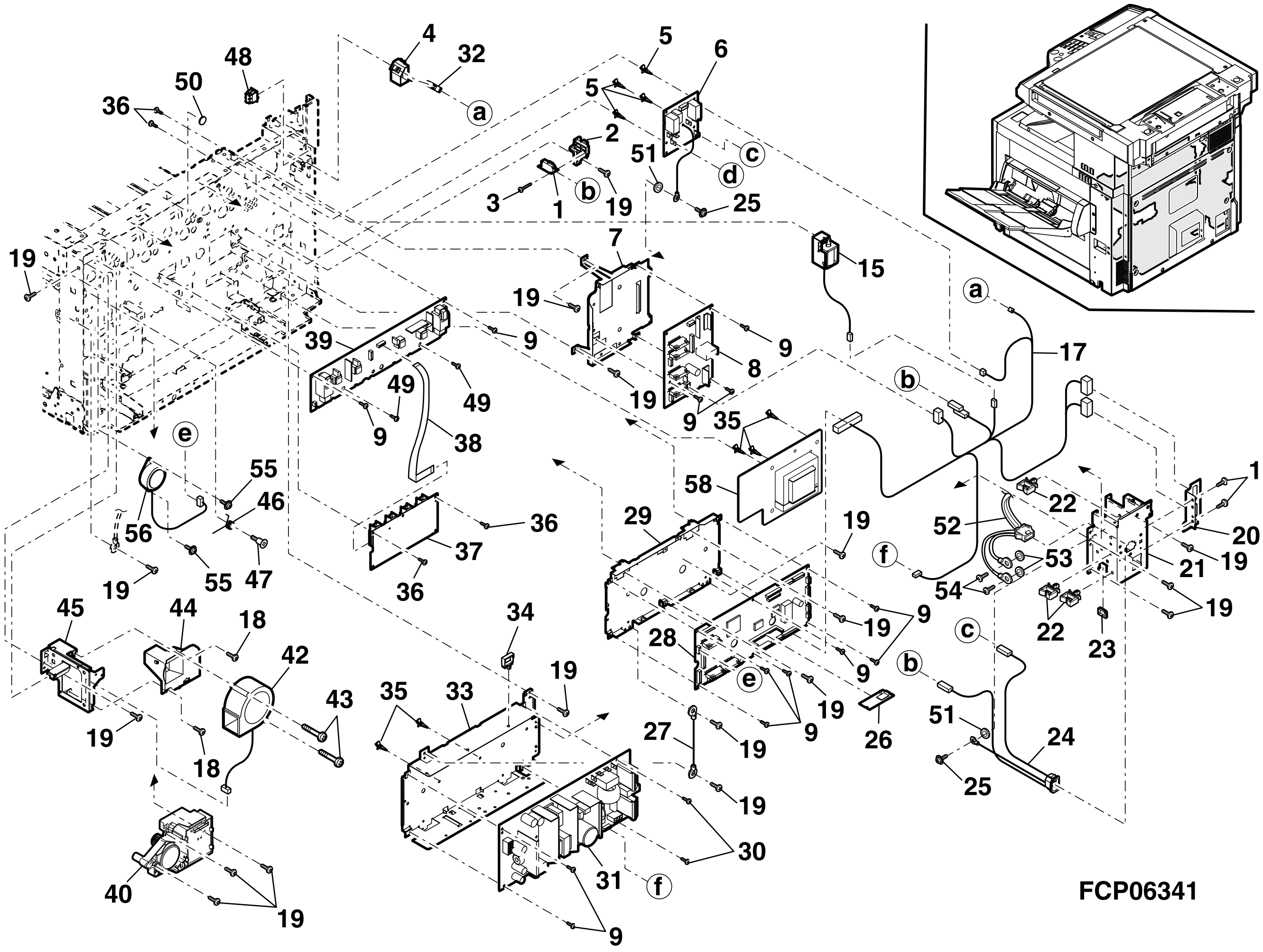
31 ﾌﾚｰﾑ 3(Frame 3)

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION
		Ex.	Ja.			
1	QSW-M0502FCZZ	AH	DX		B	Door switch(AM51632C531) ﾄﾞｱｽｲｯﾁ
2	LDAiU0643FCZZ	AH	DX	N	C	Position block R 位置決めﾌﾞﾛｯｸ R
3	XEBSD30P16000	AA	DD		C	Screw(3×16) ﾋﾞｽ
4	LHLDZ1525FCZZ	AG	DJ	N	C	Full detector holder 満杯検知ﾎﾙﾀｰ
5	LSUPP0126FCZZ	AC	DJ	N	C	Supporter(SPLSN-4) ｻﾎﾟｰﾀｰ
⚠ 6	CPWBF1546FCE1	BB	GD	N	E	AC power supply PWB (Japan only) AC 電源基板
⚠	CPWBF1546FCE2	BA	FX	N	E	AC power supply PWB (Except Japan)[100V series] AC 電源基板
⚠	CPWBF1546FCE4	BA	FX	N	E	AC power supply PWB (Except Japan)[200V series] AC 電源基板
7	LPLTM6027FCZZ	AH	DX	N	C	Driver PWB fixing plate ﾄﾞﾗｲﾊﾞ基板取付けﾌﾟﾚｰﾄ
8	CPWBN1545FCE1	BQ	LP	N	E	Driver PWB ﾄﾞﾗｲﾊﾞｰ基板
9	XHBSE30P08000	AA	DD		C	Screw(3×8) ﾋﾞｽ
15	CPLTM6024DS51	AU	EZ	N	E	Gate solenoid unit ｹﾞｰﾄｿﾚﾉｲﾄﾞﾕﾆｯﾄ
17	DHAi-3362FCZZ	AY	FQ	N	C	AC control harness AC ｺﾝﾄﾛｰﾙﾊｰﾈｽ
18	XHBSE30P06000	AA	DD		C	Screw(3×6) ﾋﾞｽ
19	XHBSE40P08000	AA	DD		C	Screw(4×8) ﾋﾞｽ
20	LPLTM6079FCZZ	AD	DJ	N	C	Dask connector fixing plate ﾃﾞｽｸｺﾈｸﾀ取付けﾌﾟﾚｰﾄ
21	LPLTM5980FCZZ	AK	EB	N	C	Inlet fixing plate ｲﾝﾚｯﾄ取付けﾌﾟﾚｰﾄ
22	LHLDW1151FCZZ	AB	DJ		C	Wire saddle(WWS-2) ﾜｲﾔｰｻﾄﾞﾙ
23	LHLDW1152FCZZ	AC	DJ		C	Bushing(EH-14) ﾌﾞｯｼｭ
24	DUNT-7289DSZZ	AK	DX	N	E	Inlet unit ｲﾝﾚｯﾄﾕﾆｯﾄ
25	XBPSD40P08K00	AA	DD		C	Screw(4×8K) ﾋﾞｽ
26	VHi28F081L07F	AY	FQ	N	E	PCU FLASH ROM(28F081L07F) PCU ﾌﾗｯｼｭﾛﾑ
27	DHAi-3412FCZZ	AC	DJ	N	C	DM drive earth harness DM 駆動ｱｰｽﾊｰﾈｽ
28	CPWBN1544DS51	BR	LX	N	E	PCU PWB PCU 基板
29	LPLTM5981FCZZ	AK	DX	N	C	Driver PWB fixing plate ﾄﾞﾗｲﾊﾞ基板取付けﾌﾟﾚｰﾄ
30	XBPSD30P08K00	AA	DD		C	Screw(3×8K) ﾋﾞｽ
⚠ 31	RDENC0020FCZ1	BU	NE	N	E	AC/DC power supply PWB (100V Series) AC/DC 電源基板
⚠	RDENC0021FCZZ	BW	RJ	N	E	AC/DC power supply PWB (200V Series) AC/DC 電源基板
32	VHPGP1A71L3-1	AG	DS	N	B	Photo sensor(GP1A71L3) ﾌｫﾄｾﾝｻｰ
33	LPLTM5979FCZZ	AV	FG	N	C	Power supply fixing plate 電源取付けﾌﾟﾚｰﾄ
34	LHLDW1154FCZZ	AC	DJ		C	Wire holder(LWS5S2W) ﾎﾙﾀﾞｰ
35	LSUPP0126FCZZ	AC	DJ	N	C	Supporter(SPLSN-4) ｻﾎﾟｰﾀｰ
36	XHBSE30P08000	AA	DD		C	Screw(3×8) ﾋﾞｽ
⚠ 37	RDENC0013FCZZ	BK	HG	N	E	High voltage TC power supply PWB ｺｳｱﾂ TC 電源基板
38	QCNW-0190FCZZ	AD	DJ	N	C	MC-TC FFC MC-TC FFC
⚠ 39	RDENC0012FCZZ	BR	LX	N	E	High voltage MC power supply PWB ｺｳｱﾂ MC 電源基板
40	CDAiU0577FC31	BE	GN		E	Lift-up unit ﾘﾌﾄｱｯﾌﾟﾕﾆｯﾄ
42	NFANP0072FCZZ	BA	FX	N	B	Process exhaust fan ﾌﾟﾛｾｽ排気ﾌｧﾝ
43	XEPSD40P40000	AC	DD	N	C	Screw(4×40) ﾋﾞｽ
44	PDUC-0169FCZ1	AE	DS	N	C	Inhalation of air duct fan fixing plate 吸気ﾀﾞｸﾄﾌｧﾝ取付け板
45	LPLTM6102FCZ1	AN	EG	N	C	Inhalation of air duct fixing plate 吸気ﾀﾞｸﾄ取付けﾌﾟﾚｰﾄ
46	MSPRD3125FCZZ	AD	DJ	N	C	PSM spring PSM ｽﾌﾟﾘﾝｸﾞ
47	LX-BZ0833FCZZ	AC	DD		C	Screw ﾋﾞｽ
48	QSW-C9294QCZZ	AF	DS		B	Dry heater switch(ALP SDDJE1) (Japan only) 除湿ﾋｰﾀｰｽｲｯﾁ
49	XEBSD30P08000	AA	DD		C	Screw(3×8) ﾋﾞｽ
50	LX-LZ0022FCZZ	AB	DD		C	Rivet(KGPS-5RF) ﾘﾍﾞｯﾄ
51	LX-WZ0443FCZZ	AB	DD		C	Washer ｱｰｽ用ﾋﾗﾜｯｼｬｰ
52	DHAi-3426FCZZ	AQ	EG	N	C	FAX AC harness (AR-C260F/C260FP) FAX AC ﾊｰﾈｽ
53	LX-WZ0443FCZZ	AB	DD		C	Washer (AR-C260F/C260FP) ｱｰｽ用ﾋﾗﾜｯｼｬｰ
54	XBPSD40P08K00	AA	DD		C	Screw(4×8K) (AR-C260F/C260FP) ﾋﾞｽ
55	XHBSD30P08KS0	AB	DD	N	C	Screw(3×8KS) ﾋﾞｽ
56	RMŌTS0883FCZZ	BA	FX	N	B	PS motor PS ﾓｰﾀ
58	CPWBF1561DS51	AZ	FQ	N	E	Reacter PWB (200V Series) ﾘｱｸﾀｰ基板

32 転写挿入ｶﾞｲﾄﾞ (Transfer insert guide)

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION
		Ex.	Ja.			
1	PGiDM1967FCZZ	AR	EG	N	C	Belt insert guide R ﾍﾞﾙﾄ挿入ｶﾞｲﾄﾞ R
2	MSPRP3030FCZZ	AD	DJ	N	C	Transfer electrode spring Y 転写接点 Y ｽﾌﾟﾘﾝｸﾞ
3	MSPRP3031FCZZ	AF	DS	N	C	Transfer electrode spring M 転写接点 M ｽﾌﾟﾘﾝｸﾞ
4	MSPRP3033FCZZ	AG	DX	N	C	Transfer electrode spring C 転写接点 C ｽﾌﾟﾘﾝｸﾞ
5	MSPRP3034FCZZ	AG	DX	N	C	Transfer electrode spring K 転写接点 K ｽﾌﾟﾘﾝｸﾞ
6	MSPRD3035FCZZ	AC	DJ	N	C	Transfer electrode spring 転写電極ｽﾌﾟﾘﾝｸﾞ
7	MLEVP0841FCZZ	AG	DX	N	C	Belt support lever ﾍﾞﾙﾄ保持ﾚﾊﾞｰ
8	LDAiU0639FCZZ	AE	DS	N	C	Belt support block ﾍﾞﾙﾄ保持ﾌﾞﾛｯｸ
9	MSPRC3029FCZZ	AC	DJ	N	C	Belt support spring ﾍﾞﾙﾄ保持ｽﾌﾟﾘﾝｸﾞ
10	NRŌLP1408FCZZ	AD	DJ	N	C	Belt support lever roller ﾍﾞﾙﾄ補助ﾚﾊﾞｰﾛｰﾗ
11	XEBSD40P08000	AA	DD		C	Screw(4×8) ﾋﾞｽ
12	PGiDM1966FCZ1	AP	EQ	N	C	Belt insert guide F ﾍﾞﾙﾄ挿入ｶﾞｲﾄﾞ F
13	MLEVP0840FCZZ	AD	DJ	N	C	Belt protect lever ﾍﾞﾙﾄﾌﾟﾛﾃｸﾄﾚﾊﾞｰ
14	LPLTM5976FCZZ	AL	DS	N	C	Belt protect plate ﾍﾞﾙﾄﾌﾟﾛﾃｸﾄﾌﾟﾚｰﾄ
15	MSPRT3032FCZZ	AC	DJ	N	C	Protect plate spring ﾌﾟﾛﾃｸﾄ板ｽﾌﾟﾘﾝｸﾞ
16	PDUC-0167FCZ2	AK	EB	N	C	Ozone duct A ｵｿﾞﾝﾀﾞｸﾄ A
17	DHAi-3367FCZZ	AT	EZ	N	C	CRUM harness CRUM ﾊｰﾈｽ
18	XEBSD30P10000	AA	DD		C	Screw(3×10) ﾋﾞｽ
19	XEBSD40P08000	AA	DD		C	Screw(4×8) ﾋﾞｽ

31 ﾌﾚｰﾑ 3(Frame 3)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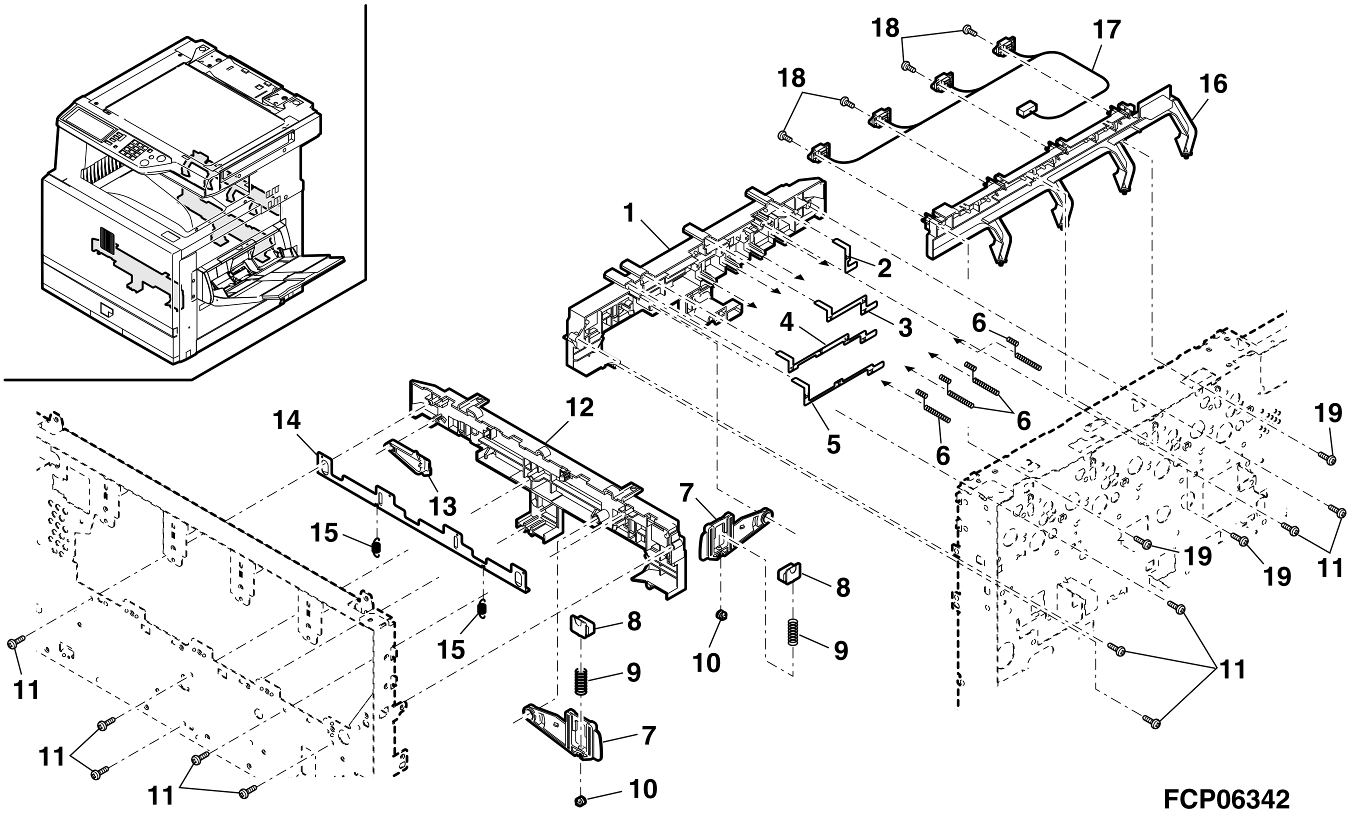
32 転写挿入ｶﾞｲﾄﾞ (Transfer insert guide)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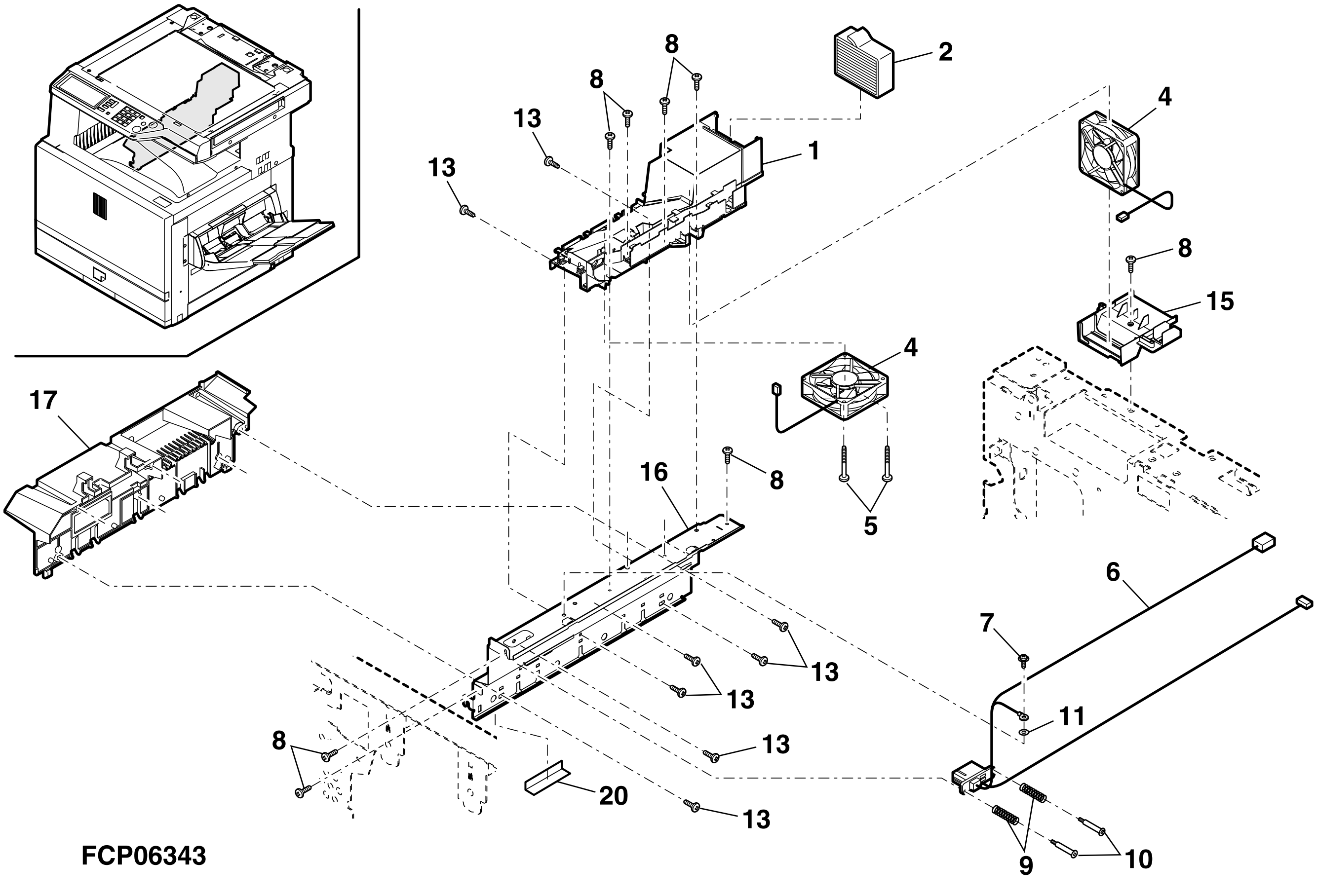
33 ﾀﾞｸﾄﾕﾆｯﾄ (Duct unit)

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION
		Ex.	Ja.			
1	LHLDZ1508FCZZ	AW	FG	N	C	Ozone filter holder ｵｿﾞﾝﾌｨﾙﾀｰﾎﾙﾀﾞｰ
2	PFiLZ0290FCZ1	BA	FX	N	A	Ozone filter ｵｿﾞﾝﾌｨﾙﾀｰ
4	NFANP0068FCZZ	BB	GD	N	B	Cooling fan 冷却ﾌｧﾝ
5	XEBSD40P35000	AC	DD	N	C	Screw(4×35) ﾋﾞｽ
6	DHAi－3364FCZZ	AX	FG	N	C	HL AC supply harness (100V Series) HL AC 供給ﾊｰﾈｽ
	DHAi－3402FC11	AY	FQ	N	C	HL AC supply harness (200V Series) HL AC 供給ﾊｰﾈｽ
7	XBPSD40P06K00	AA	DD		C	Screw(4×6K) ﾋﾞｽ
8	XHBSE40P08000	AA	DD		C	Screw(4×8) ﾋﾞｽ
9	MSPRC2645FCZZ	AB	DJ		C	MF reverse pressure spring 手差し逆転加圧ｽﾌﾟﾘﾝｸﾞ
10	LX－BZ0850FCZZ	AC	DD		C	Screw ﾋﾞｽ
11	LX－WZ0443FCZZ	AB	DD		C	Washer ｱｰｽ用ﾋﾗﾜｯｼｬｰ
13	XEBSD40P08000	AA	DD		C	Screw(4×8) ﾋﾞｽ
15	PDUC－0168FCZZ	AK	DX	N	C	Ozone duct B ｵｿﾞﾝﾀﾞｸﾄB
16	LPLTM5973FCZZ	AQ	EQ	N	C	Fusing separate plate 定着仕切りﾌﾟﾚｰﾄ
17	PDUC－0166FCZZ	AX	EZ	N	C	Fan duct ﾌｧﾝﾀﾞｸﾄ
20	PSHEP5111FCZZ	AA	DJ	N	C	Process guide sheet ﾌﾟﾛｾｽｶﾞｲﾄﾞｼｰﾄ

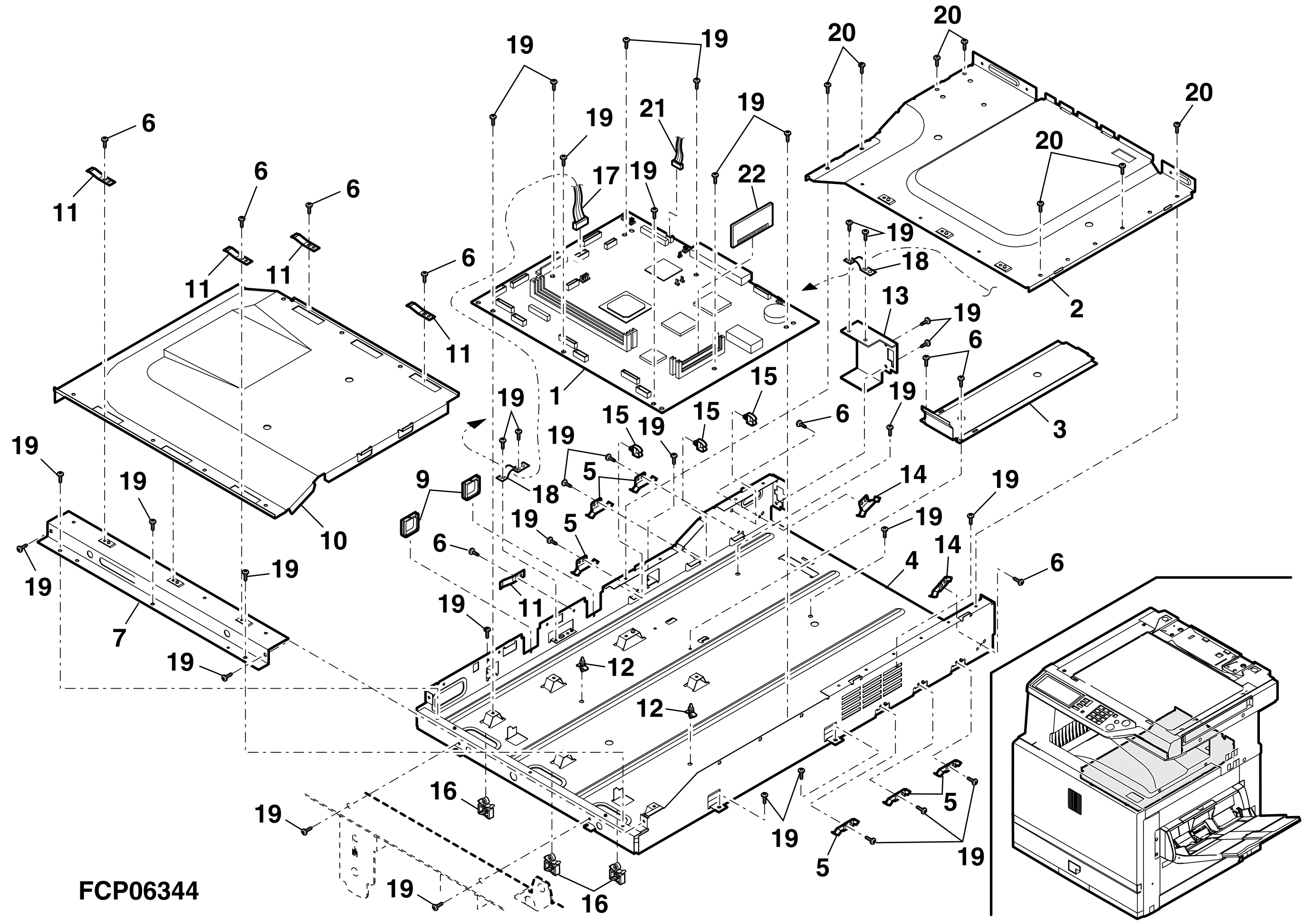
33 ﾀﾞｸﾄﾕﾆｯﾄ (Duct unit)



34 ｺﾝﾄﾛｰﾗ BOX(Control box)

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION
		Ex.	Ja.			
1	CPWBN1549DS54	CU	VW	N	E	ICU PWB (AR-C260S/C260M)[JAPAN] ICU 基板
	CPWBN1549DS55	CV	VZ	N	E	ICU PWB (AR-C260F/C260FP)[JAPAN] ICU 基板
	CPWBN1549DS57	CU	VW	N	E	ICU PWB (AR-C260/C260M)[Except JAPAN] ICU 基板
2	PCOVP1699FCZ1	AN	EQ	N	C	Box cover R ﾎﾞｯｸｽｶﾊﾞｰR
3	LPLTM6025FCZZ	AE	DS	N	C	FFC sheild plate FFC ｼｰﾙﾄﾞﾌﾟﾚｰﾄ
4	PBOX-0131FCZZ	AU	EZ	N	C	Controller BOX ｺﾝﾄﾛ-ﾗ BOX
5	MSPRP3164FCZZ	AD	DJ	N	C	Earth spring ｱｰｽｽﾌﾟﾘﾝｸﾞ
6	XHBSE30P06000	AA	DD		C	Screw(3×6) ﾋﾞｽ
7	PCOVP1697FCZZ	AG	DX	N	C	Box cover F ﾎﾞｯｸｽｶﾊﾞｰF
9	PHOG-0385FCZZ	AB	DD		C	Harness clamp ﾊｰﾈｽｸﾗﾝﾌﾟ
10	PCOVP1698FCZZ	AN	EQ	N	C	Box cover C ﾎﾞｯｸｽｶﾊﾞｰC
11	MSPRP3037FCZZ	AD	DJ	N	C	Controrller spring B ｺﾝﾄﾛｰﾗｰ接地ｽﾌﾟﾘﾝｸﾞ B
12	LSUPP1001ACZZ	AB	DD		C	Supporter(KGPS-4S) ｽﾍﾟｰｻｰ
13	LPLTM6090FCZZ	AE	DJ	N	C	OP connector fixing plate OP ｺﾈｸﾀ取付ｹﾌﾟﾚｰﾄ
14	PGiDH2016FCZZ	AC	DJ	N	C	Controller guide ｺﾝﾄﾛ-ﾗｶﾞｲﾄﾞ
15	LHLDW1006FCZZ	AA	DD		C	Mini clanp(UAMS-09-0) ﾐﾆｸﾗﾝﾌﾟ
16	LHLDW0429FCZZ	AB	DD		C	Wire saddle(WS-2NS) ﾜｲﾔｰｻﾄﾞﾙ
17	QCNW-0215FCZZ	AZ	FQ	N	C	FAX I/F cable (AR-C260F/C260FP) FAX I/F ｹｰﾌﾞﾙ
18	MSPRP3036FCZZ	AE	DJ	N	C	FAX harness spring (AR-C260F/C260FP) FAX ﾊｰﾈｽ接地ｽﾌﾟﾘﾝｸﾞ
19	XHBSE30P08000	AA	DD		C	Screw(3×8) ﾋﾞｽ
20	XHBSE30P04000	AA	DD		C	Screw(3×4) ﾋﾞｽ
21	DHAi-3465FCZZ	AV	FG	N	C	PRTCFM harness (AR-C260/C260S/C260F) PRTCFM ﾊｰﾈｽ
22	VHi28F322L23F	BH	HC	N	C	ICU FLASH ROM(28F322L23F) (AR-C260F/C260FP) ICU ﾌﾗｯｼｭﾛﾑ
	VHi28F322L22F	BH	HC	N	C	ICU FLASH ROM(28F322L22F) (Other Model) ICU ﾌﾗｯｼｭﾛﾑ

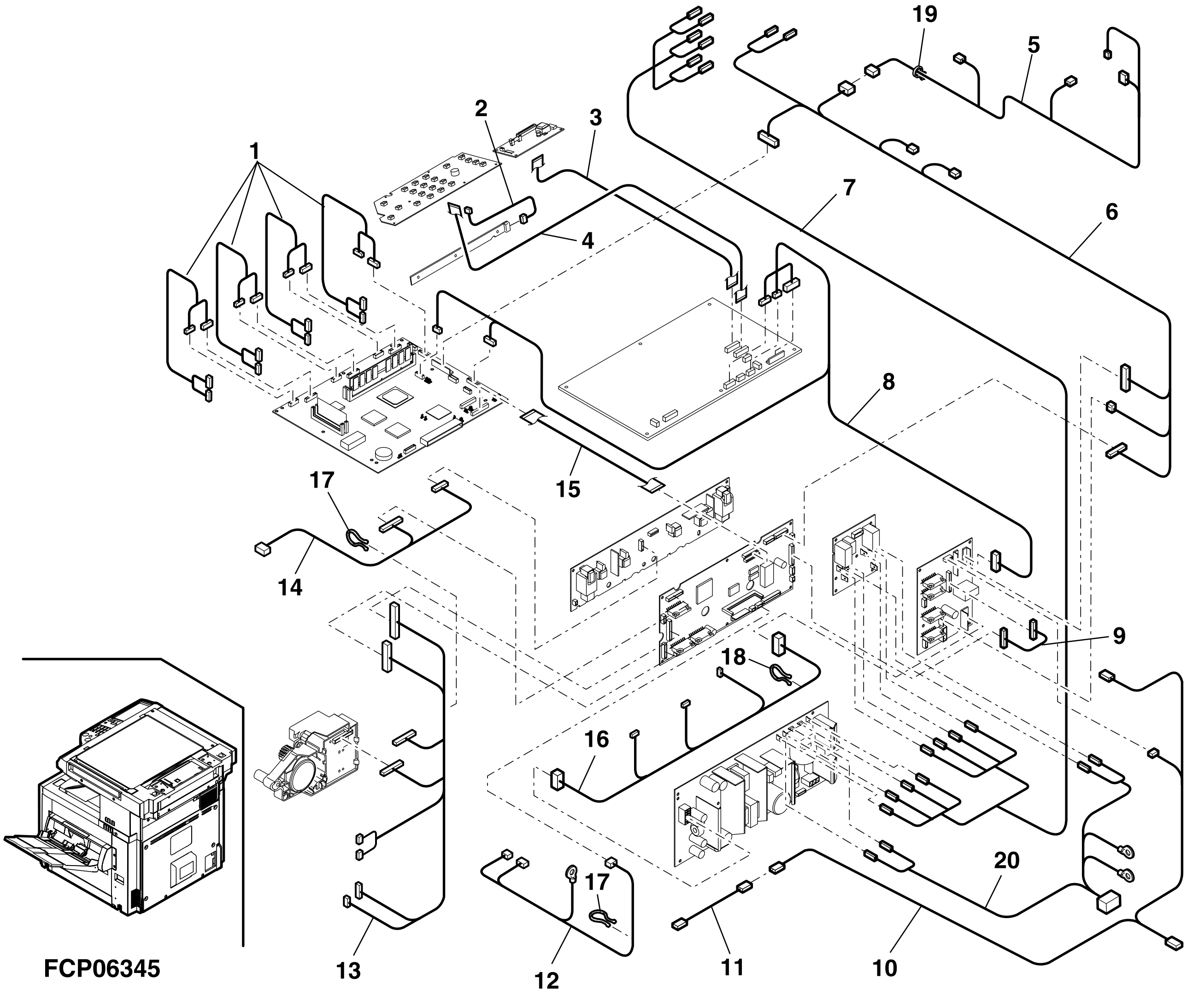
34 ｺﾝﾄﾛｰﾗ BOX(Control box)



35 配線部 (Wiring section)

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION		
		Ex.	Ja.					
1	DHAi－3424FC12	AV	FG	N	C	LED head harness		LED ﾍｯﾄﾞﾊｰﾈｽ
2	DHAi－3419FCZZ	AE	DS	N	C	OP-PD harness		OP-PD ﾊｰﾈｽ
3	QCNW－0197FCZZ	AL	EB	N	C	MFP-OP FFC		MFP-OP FFC
4	QCNW－0213FCZZ	AH	DX	N	C	OP-KEY FFC		OP-KEY FFC
5	DHAi－3413FCZZ	AN	EG	N	C	OSM harness		OSM ﾊｰﾈｽ
6	DHAi－3345FC11	AY	FQ	N	C	Delivery harness		排紙ﾊｰﾈｽ
7	DHAi－3361FCZZ	AT	EZ	N	C	MSW harness	(100V Series)	MSW ﾊｰﾈｽ
	DHAi－3400FCZZ	AU	EZ	N	C	MSW harness	(200V Series)	MSW ﾊｰﾈｽ
8	DHAi－3443FC12	AY	FQ	N	C	MFP-ICU harness		MFP-ICU ﾊｰﾈｽ
9	DHAi－3416FCZZ	AN	EQ	N	C	Driver PWB harness		駆動基板ﾊｰﾈｽ
10	DHAi－3404FCZZ	AR	EQ	N	C	DHSW harness	(Japan only)	DHSW ﾊｰﾈｽ
11	DHAi－3405FCZZ	AG	DX	N	C	DH harness	(Japan only)	DH ﾊｰﾈｽ
12	DHAi－3410FCZZ	AL	EB	N	C	BLU interface harness		BLU 中継ﾊｰﾈｽ
13	DHAi－3360FCZZ	AU	EZ	N	C	Cassette guide harness		ｶｾｯﾄｶﾞｲﾄﾞﾊｰﾈｽ
14	DHAi－3348FCZZ	AR	EQ	N	C	Multi interface harness		手差し中継ﾊｰﾈｽ
15	QCNW－0211FCZZ	AF	DS	N	C	PCU interface FFC		PCU 間 FFC
16	DHAi－3363FCZZ	AT	EZ	N	C	DC harness		DC ﾊｰﾈｽ
17	LHLDW1223FCZZ	AA	DJ		C	Wire lock holder(White)		ｵﾒｶﾞﾛｯｸ
18	LHLDW1545FCZZ	AB	DJ	N	C	Wire lock holder(Black)		ｵﾒｶﾞﾛｯｸ
19	LBNDJ0043FCZ1	AA	DJ		C	Band		ﾊﾞﾝﾄﾞ
20	DHAi－3426FCZZ	AQ	EG	N	C	FAX AC harness	(AR-C260F/C260FP)	FAX AC ﾊｰﾈｽ

35 配線部 (Wiring section)



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㊱ 梱包材＆付属品 (Packing Material & Accessories)

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION
		Ex.	Ja.			
1	SPAKC6335DSZZ	BB	GD	N	D	Packing case [Japan](AR-C260S) ﾊﾟｯｷﾝｸﾞｹｰｽ
	SPAKC6383DSZZ	AZ	FQ	N	D	Packing case [Japan](AR-C260F) ﾊﾟｯｷﾝｸﾞｹｰｽ
	SPAKC6383DS11	BF	GN	N	D	Packing case [Japan](AR-C260FP) ﾊﾟｯｷﾝｸﾞｹｰｽ
	SPAKC6334DS12	BU	NN	N	D	Packing case [SRS/SRSSC,Indonesia,STCL](AR-C260) ﾊﾟｯｷﾝｸﾞｹｰｽ
	SPAKC6334DS11	BE	GN	N	D	Packing case [U.S.A Other countries](AR-C260) ﾊﾟｯｷﾝｸﾞｹｰｽ
	SPAKC6335DS11	BE	GN	N	D	Packing case [Japan](AR-C260M) ﾊﾟｯｷﾝｸﾞｹｰｽ
	SPAKC6334DS15	BU	NN	N	D	Packing case [SRS/SRSSC,Indonesia,STCL](AR-C260M) ﾊﾟｯｷﾝｸﾞｹｰｽ
	SPAKC6334DS14	BE	GN	N	D	Packing case [U.S.A Other countries](AR-C260M) ﾊﾟｯｷﾝｸﾞｹｰｽ
2	SPAKA6338FCZZ	AL	EB	N	D	Top packing cushion L [Japan](AR-C260S/C260M) ﾃﾝｱﾄﾞ L
	SPAKA6384FCZZ	AL	EB	N	D	Top packing cushion L [Japan](AR-C260F/C260FP) ﾃﾝｱﾄﾞ L
	SPAKA6336FCZZ	AK	EB	N	D	Top packing cushion L [Except Japan] ﾃﾝｱﾄﾞ L
3	SPAKA6339FCZZ	AN	EQ	N	D	Top packing cushion R [Japan](AR-C260S/C260M) ﾃﾝｱﾄﾞ R
	SPAKA6385FCZZ	AP	EQ	N	D	Top packing cushion R [Japan](AR-C260F/C260FP) ﾃﾝｱﾄﾞ R
	SPAKA6337FCZZ	AN	EG	N	D	Top packing cushion R [Except Japan] ﾃﾝｱﾄﾞ R
4	SSAKZ0018FCZZ	AN	EG		D	Vinyl bag ﾎﾟﾘﾌﾞｸﾛ
5	CPAKA6340FC01	AW	FG	N	D	Bottom packing case unit 底ｹｰｽﾕﾆｯﾄ
7	SPAKA0581YSZZ	AE	DS	N	C	DRCA slleve DRCA ｽﾘｰﾌﾞ
8	SSAKA3640QCZZ	AB	DD		C	Vinyl bag(320×690mm) ﾎﾟﾘﾌﾞｸﾛ
9	DUNT-7255DSZZ	AZ	FQ	N	E	Delivery tray unit (Japan only) 排紙ﾄﾚｲﾕﾆｯﾄ
10	TiNSJ2329FCZZ	BB	GD	N	D	Operation manual(COPY) (Japan only) 取扱説明書 (ｺﾋﾟｰ)
	TiNSJ2330FCZZ	BA	FX		D	Operation manual(FAX) (Japan only)[AR-C260F/C260FP] 取扱説明書 (FAX)
	TiNSJ2331FCZZ	AV	FG	N	D	Operation manual(KEY) (Japan only) 取扱説明書 (ｷｰ)
	TiNSJ2362FCZZ	AK	EB	N	D	Operation manual(COLOR) (Japan only)[AR-C260M/C260FP] 取扱説明書 (ｶﾗｰ)
	TiNSJ2378FCZZ	AS	EQ	N	D	Operation manual(MFP install) (Japan only)[AR-C260M/C260FP] 取扱説明書 (MFP ｲﾝｽﾄｰﾙ)
	TiNSJ2444FCZZ	AM	EG	N	D	Operation manual(S11) (Japan only) 取扱説明書 (S11)
	TiNSE2332FCZZ	BA	FX	N	D	Operation manual(COPY) (English)[U.S.A] 取扱説明書 (ｺﾋﾟｰ)
	TiNSE2347FCZZ	AP	EQ	N	D	Operation manual(KEY) (English)[U.S.A] 取扱説明書 (ｷｰ)
	TiNSE2363FCZZ	AM	EG	N	D	Operation manual(COLOR) (English)[U.S.A][AR-C260M] 取扱説明書 (ｶﾗｰ)
	TiNSE2379FCZZ	AN	EQ	N	D	Operation manual(MFP install) (English)[U.S.A][AR-C260M] 取扱説明書 (MFP ｲﾝｽﾄｰﾙ)
	TiNSE2445FCZZ	AM	EG	N	D	Operation manual(S11) (English)[U.S.A] 取扱説明書 (S11)
	TiNSF2336FCZZ	BA	FX	N	D	Operation manual(COPY) (French)[CANADA] 取扱説明書 (ｺﾋﾟｰ)
	TiNSF2351FCZZ	AP	EQ	N	D	Operation manual(KEY) (French)[CANADA] 取扱説明書 (ｷｰ)
	TiNSF2367FCZZ	AM	EG	N	D	Operation manual(COLOR) (French)[CANADA][AR-C260M] 取扱説明書 (ｶﾗｰ)
	TiNSF2383FCZZ	AN	EQ	N	D	Operation manual(MFP install) (French)[CANADA][AR-C260M] 取扱説明書 (MFP ｲﾝｽﾄｰﾙ)
	TiNSF2449FCZZ	AM	EG	N	D	Operation manual(S11) (French)[CANADA] 取扱説明書 (S11)
	TiNSE2334FCZZ	BB	GD	N	D	Operation manual(COPY) (English)[Other countries] 取扱説明書 (ｺﾋﾟｰ)
	TiNSE2349FCZZ	AQ	EQ	N	D	Operation manual(KEY) (English)[Other countries] 取扱説明書 (ｷｰ)
	TiNSE2365FCZZ	AM	EG	N	D	Operation manual(COLOR) (English)[Other countries][AR-C260M] 取扱説明書 (ｶﾗｰ)
	TiNSE2381FCZZ	AN	EQ	N	D	Operation manual(MFP install) (English)[Other countries][AR-C260M] 取扱説明書 (MFP ｲﾝｽﾄｰﾙ)
	TiNSE2447FCZZ	AM	EG	N	D	Operation manual(S11) (English)[Other countries] 取扱説明書 (S11)
	TiNSE2333GHZZ	∗	∗	N	D	Operation manual(COPY) (English)[U.Kingdum] 取扱説明書 (ｺﾋﾟｰ)
	TiNSE2348GHZZ	∗	∗	N	D	Operation manual(KEY) (English)[U.Kingdum] 取扱説明書 (ｷｰ)
	TiNSE2364GHZZ	∗	∗	N	D	Operation manual(COLOR) (English)[U.Kingdum][AR-C260M] 取扱説明書 (ｶﾗｰ)
	TiNSE2380GHZZ	∗	∗	N	D	Operation manual(MFP install) (English)[U.Kingdum][AR-C260M] 取扱説明書 (MFP ｲﾝｽﾄｰﾙ)
	TiNSE2446GHZZ	∗	∗	N	D	Operation manual(S11) (English)[U.Kingdum] 取扱説明書 (S11)
	TiNSE2334GHZZ	∗	∗	N	D	Operation manual(COPY) (English)[Europe] 取扱説明書 (ｺﾋﾟｰ)
	TiNSE2349GHZZ	∗	∗	N	D	Operation manual(KEY) (English)[Europe] 取扱説明書 (ｷｰ)
	TiNSE2365GHZZ	∗	∗	N	D	Operation manual(COLOR) (English)[Europe][AR-C260M] 取扱説明書 (ｶﾗｰ)
	TiNSE2381GHZZ	∗	∗	N	D	Operation manual(MFP install) (English)[Europe][AR-C260M] 取扱説明書 (MFP ｲﾝｽﾄｰﾙ)
	TiNSE2447GHZZ	∗	∗	N	D	Operation manual(S11) (English)[Europe] 取扱説明書 (S11)
	TiNSG2341GHZZ	∗	∗	N	D	Operation manual(COPY) (German) 取扱説明書 (ｺﾋﾟｰ)
	TiNSG2356GHZZ	∗	∗	N	D	Operation manual(KEY) (German) 取扱説明書 (ｷｰ)
	TiNSG2372GHZZ	∗	∗	N	D	Operation manual(COLOR) (German)[AR-C260M] 取扱説明書 (ｶﾗｰ)
	TiNSG2388GHZZ	∗	∗	N	D	Operation manual(MFP install) (German)[AR-C260M] 取扱説明書 (MFP ｲﾝｽﾄｰﾙ)
	TiNSG2454GHZZ	∗	∗	N	D	Operation manual(S11) (German) 取扱説明書 (S11)
	TiNSF2336GHZZ	∗	∗	N	D	Operation manual(COPY) (French) 取扱説明書 (ｺﾋﾟｰ)
	TiNSF2351GHZZ	∗	∗	N	D	Operation manual(KEY) (French) 取扱説明書 (ｷｰ)
	TiNSF2367GHZZ	∗	∗	N	D	Operation manual(COLOR) (French)[AR-C260M] 取扱説明書 (ｶﾗｰ)
	TiNSF2383GHZZ	∗	∗	N	D	Operation manual(MFP install) (French)[AR-C260M] 取扱説明書 (MFP ｲﾝｽﾄｰﾙ)
	TiNSF2449GHZZ	∗	∗	N	D	Operation manual(S11) (French) 取扱説明書 (S11)
	TiNSS2337GHZZ	∗	∗	N	D	Operation manual(COPY) (Spanish) 取扱説明書 (ｺﾋﾟｰ)
	TiNSS2352GHZZ	∗	∗	N	D	Operation manual(KEY) (Spanish) 取扱説明書 (ｷｰ)
	TiNSS2368GHZZ	∗	∗	N	D	Operation manual(COLOR) (Spanish)[AR-C260M] 取扱説明書 (ｶﾗｰ)
	TiNSS2384GHZZ	∗	∗	N	D	Operation manual(MFP install) (Spanish)[AR-C260M] 取扱説明書 (MFP ｲﾝｽﾄｰﾙ)
	TiNSS2450GHZZ	∗	∗	N	D	Operation manual(S11) (Spanish) 取扱説明書 (S11)
	TiNSi2338GHZZ	∗	∗	N	D	Operation manual(COPY) (Italian) 取扱説明書 (ｺﾋﾟｰ)
	TiNSi2353GHZZ	∗	∗	N	D	Operation manual(KEY) (Italian) 取扱説明書 (ｷｰ)
	TiNSi2369GHZZ	∗	∗	N	D	Operation manual(COLOR) (Italian)[AR-C260M] 取扱説明書 (ｶﾗｰ)
	TiNSi2385GHZZ	∗	∗	N	D	Operation manual(MFP install) (Italian)[AR-C260M] 取扱説明書 (MFP ｲﾝｽﾄｰﾙ)

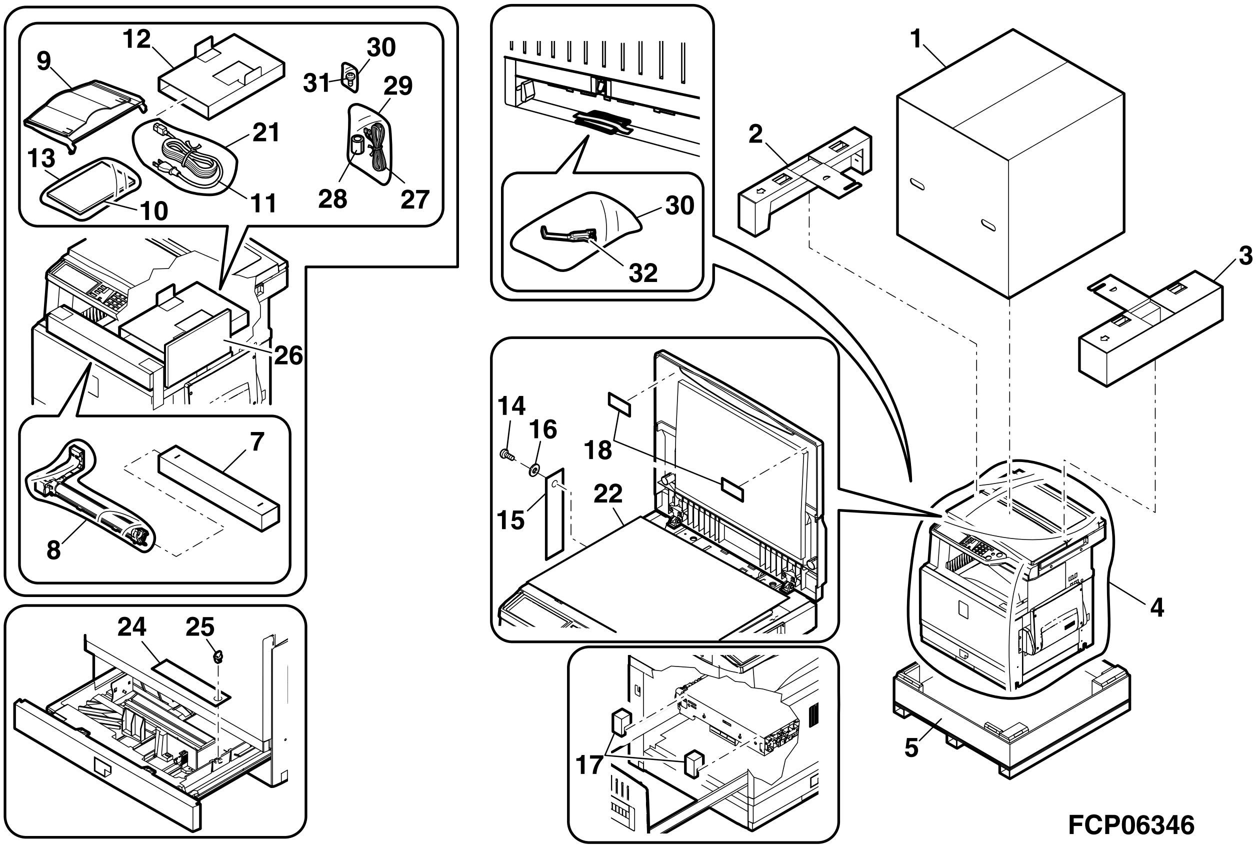
㊱ 梱包材＆付属品 (Packing Material & Accessories)

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION
		Ex.	Ja.			
10	TiNSi2451GHZZ	∗	∗	N	D	Operation manual(S11) (Italian) 取扱説明書 (S11)
	TiNSH2339GHZZ	∗	∗	N	D	Operation manual(COPY) (Dutch) 取扱説明書 (ｺﾋﾟｰ)
	TiNSH2354GHZZ	∗	∗	N	D	Operation manual(KEY) (Dutch) 取扱説明書 (ｷｰ)
	TiNSH2370GHZZ	∗	∗	N	D	Operation manual(COLOR) (Dutch)[AR-C260M] 取扱説明書 (ｶﾗｰ)
	TiNSH2386GHZZ	∗	∗	N	D	Operation manual(MFP install) (Dutch)[AR-C260M] 取扱説明書 (MFP ｲﾝｽﾄｰﾙ)
	TiNSH2452GHZZ	∗	∗	N	D	Operation manual(S11) (Dutch) 取扱説明書 (S11)
	TiNSW2340GHZZ	∗	∗	N	D	Operation manual(COPY) (Swedish) 取扱説明書 (ｺﾋﾟｰ)
	TiNSW2355GHZZ	∗	∗	N	D	Operation manual(KEY) (Swedish) 取扱説明書 (ｷｰ)
	TiNSW2371GHZZ	∗	∗	N	D	Operation manual(COLOR) (Swedish)[AR-C260M] 取扱説明書 (ｶﾗｰ)
	TiNSW2387GHZZ	∗	∗	N	D	Operation manual(MFP install) (Swedish)[AR-C260M] 取扱説明書 (MFP ｲﾝｽﾄｰﾙ)
	TiNSW2453GHZZ	∗	∗	N	D	Operation manual(S11) (Swedish) 取扱説明書 (S11)
	TiNSZ2342GHZZ	∗	∗	N	D	Operation manual(COPY) (Norwegian) 取扱説明書 (ｺﾋﾟｰ)
	TiNSZ2357GHZZ	∗	∗	N	D	Operation manual(KEY) (Norwegian) 取扱説明書 (ｷｰ)
	TiNSZ2373GHZZ	∗	∗	N	D	Operation manual(COLOR) (Norwegian)[AR-C260M] 取扱説明書 (ｶﾗｰ)
	TiNSZ2389GHZZ	∗	∗	N	D	Operation manual(MFP install) (Norwegian)[AR-C260M] 取扱説明書 (MFP ｲﾝｽﾄｰﾙ)
	TiNSZ2455GHZZ	∗	∗	N	D	Operation manual(S11) (Norwegian) 取扱説明書 (S11)
	TiNSZ2343GHZZ	∗	∗	N	D	Operation manual(COPY) (Finnish) 取扱説明書 (ｺﾋﾟｰ)
	TiNSZ2358GHZZ	∗	∗	N	D	Operation manual(KEY) (Finnish) 取扱説明書 (ｷｰ)
	TiNSZ2374GHZZ	∗	∗	N	D	Operation manual(COLOR) (Finnish)[AR-C260M] 取扱説明書 (ｶﾗｰ)
	TiNSZ2390GHZZ	∗	∗	N	D	Operation manual(MFP install) (Finnish)[AR-C260M] 取扱説明書 (MFP ｲﾝｽﾄｰﾙ)
	TiNSZ2456GHZZ	∗	∗	N	D	Operation manual(S11) (Finnish) 取扱説明書 (S11)
	TiNSD2344GHZZ	∗	∗	N	D	Operation manual(COPY) (Danish) 取扱説明書 (ｺﾋﾟｰ)
	TiNSD2359GHZZ	∗	∗	N	D	Operation manual(KEY) (Danish) 取扱説明書 (ｷｰ)
	TiNSD2375GHZZ	∗	∗	N	D	Operation manual(COLOR) (Danish)[AR-C260M] 取扱説明書 (ｶﾗｰ)
	TiNSD2391GHZZ	∗	∗	N	D	Operation manual(MFP install) (Danish)[AR-C260M] 取扱説明書 (MFP ｲﾝｽﾄｰﾙ)
	TiNSD2457GHZZ	∗	∗	N	D	Operation manual(S11) (Danish) 取扱説明書 (S11)
	CCADZ1561FC01	AK	DX		D	Maintenance card (Japan) ﾒﾝﾃﾅﾝｽｶｰﾄﾞ
	CCADZ1518FC01	AB	DJ		D	Maintenance card (Except Japan) ﾒﾝﾃﾅﾝｽｶｰﾄﾞ
	TCADZ6017FCZZ	AF	DS	N	D	MSDS card (U.S.A,Canada) MSDS ｶｰﾄﾞ
	TCADZ6017GHZZ	∗	∗	N	D	MSDS card (English)[Europe] MSDS ｶｰﾄﾞ
	PSHEP5013FCZ1	∗	∗	N	D	Key sheet (French) ｷｰｼｰﾄ
	PSHEP5013FCZZ	∗	∗	N	D	Key sheet (German) ｷｰｼｰﾄ
	PSHEP5013FCZ2	∗	∗	N	D	Key sheet (Spanish) ｷｰｼｰﾄ
	PSHEP5013FCZ3	∗	∗	N	D	Key sheet (Italian) ｷｰｼｰﾄ
	PSHEP5013FCZ4	∗	∗	N	D	Key sheet (Dutch) ｷｰｼｰﾄ
	PSHEP5013FCZ5	∗	∗	N	D	Key sheet (Swedish) ｷｰｼｰﾄ
	PSHEP5013FCZ6	∗	∗	N	D	Key sheet (Norwegian) ｷｰｼｰﾄ
	PSHEP5013FCZ7	∗	∗	N	D	Key sheet (Finnish) ｷｰｼｰﾄ
	PSHEP5013FCZ8	∗	∗	N	D	Key sheet (Danish) ｷｰｼｰﾄ
	TCADS1512FCZZ	AB	DJ		D	Supply set up card (Australia,New Zealand) 納入設置報告書
	TCADS1511FCZZ	AC	DJ		D	Supply set up card (Europe) 納入設置報告書
	CDSKA0014FC31	AT	EZ	N	D	CD-ROM (AR-C260M/C260FP)[Japan] CD-ROM
	CDSKA0014FC32	AT	EZ	N	D	CD-ROM (AR-C260M)[U.S.A other countries] CD-ROM
	CDSKA0014GH35	∗	∗	N	D	CD-ROM (AR-C260M)[Europe] CD-ROM
	CDSKA0014FC35	AT	EZ	N	D	CD-ROM (AR-C260M)[Yenen,Saudi Arabia, Oman,Qutar,Bahrain,Kuwait,UAE] CD-ROM
	CDSKA0002QS33	AP	EQ	N	D	NIC CD-ROM (AR-C260M/C260FP)[Except Europe] NIC CD-ROM
	CDSKA0002TS33	∗	∗	N	D	NIC CD-ROM (AR-C260M)[Europe] NIC CD-ROM
	UKŌG−0304FCZZ	AQ	EQ	N	D	Color chart (AR-C260M/C260FP) ｶﾗｰﾁｬｰﾄ
⚠ 11	QACCJ6912QCPZ	AV	FG	N	B	AC cord (Japan,Philippines) AC ｺｰﾄﾞ
⚠	QACCD7912QCPZ	AS	EQ	N	B	AC cord (U.S.A,Canada) AC ｺｰﾄﾞ
⚠	QACCL7922QCPZ	AN	EQ	N	B	AC cord (Australia,New zealand) AC ｺｰﾄﾞ
⚠	QACCB7626QCPZ	∗	∗	N	B	AC cord (U.Kingdom) AC ｺｰﾄﾞ
⚠	QACCE6922QCPZ	AQ	EQ	N	B	AC cord (SEEG,STCL) AC ｺｰﾄﾞ
⚠	DHAi−3332DSZZ	BB	GD	N	B	AC cord (SRS/SRSSC,Indonesia) AC ｺｰﾄﾞ
⚠	DHAi−3332DS11	BB	GD	N	B	AC cord (India) AC ｺｰﾄﾞ
⚠	QACCB7623QCZZ	BB	GD	N	B	AC cord (Other countries) AC ｺｰﾄﾞ
12	SPAKA6346FCZZ	AD	DJ	N	D	Accesories spacer (Japan only) 付属品ｽﾍﾟｰｻｰ
13	SSAKA2440QCZZ	AB	DD		D	Vinyl bag(280×410mm) ﾎﾟﾘﾌﾞｸﾛ
14	LX−BZ0555FCZZ	AB	DD		D	Screw DVS 取付けﾋﾞｽ
15	TCADZ1178FCZZ	AB	DJ		D	Screw remove caution tag ﾋﾞｽ開梱注意ｶｰﾄﾞ
16	LX−WZ0326FCZZ	AA	DD		D	MB cushion B9 MB ｸｯｼｮﾝ B9
17	SPAKA6302FCZ1	AD	DJ	N	D	Packing add 転写固定材
18	SPAKA4693FCZZ	AE	DS		D	Packing add OC [Japan](AR-C260S) OC 保護材
21	SSAKA5003CCZZ	AA	DD		C	Vinyl bag(140×260mm) ﾎﾟﾘﾌﾞｸﾛ
22	SPAKA6075FCZZ	AE	DJ	N	D	RSPF protect sheet [Japan](AR-C260F/C260FP) RSPF 保護ｼｰﾄ
	SPAKA6450FCZZ	AD	DJ	N	D	OC protect sheet (Other Model) OC 保護ｼｰﾄ
24	TCADZ1275FCZZ	AB	DJ		D	Cassette rotation plate caution tag ｶｾｯﾄ回転板注意ｶｰﾄﾞ
25	LHLDW1226FCZZ	AB	DJ		C	Turn fastener ﾀｰﾝﾌｧｽﾅｰ
26	SPAKA6345FCZZ	AE	DJ	N	D	Scanner reinforce add ｽｷｬﾅｰ補強材
27	QCNW−7197XCZZ	AH	DX		C	Line cable [Japan](AR-C260F/C260FP) ﾗｲﾝｹｰﾌﾞﾙ
28	RCŌRF0046FCZZ	AH	DX	N	C	Ferrite core [Japan](AR-C260F/C260FP) ﾌｪﾗｲﾄｺｱ
29	SSAKH3013CCZZ	AA	DD		C	Vinyl bag(120×220mm) [Japan](AR-C260F/C260FP) ﾎﾟﾘﾌﾞｸﾛ
30	SSAKA0006UCZZ	AA	DD		C	Vinyl bag(50×60mm) ﾎﾟﾘﾌﾞｸﾛ

36 梱包材＆付属品 (Packing Material & Accessories)

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION
		Ex.	Ja.			
31	XBBSE40P06000	AA	DD		C	Screw(4×6) [Japan](AR-C260F/C260FP) ﾋﾞｽ
32	MLEVP0864FCZZ	AD	DJ	N	C	Full actuator FU 満杯ｱｸﾁｭｴｰﾀ FU
101	TCADZ6015FCZZ	AC	DJ	N	D	Set up card 設置手順書
102	SPAKA6440FCZZ	AL	EB	N	D	Scanner reinforce slleve (AR-C260F/C260FP) ｽｷｬﾅｰ補強ｽﾘｰﾌﾞ
103	SPAKA6386FCZZ	AL	EB	N	D	ADF spacer (AR-C260F/C260FP) ADF ｽﾍﾟｰｻｰ
104	SPAKA6235DSZZ	AH	DX	N	D	Joint C (AR-C260F/C260FP) ｼﾞｮｲﾝﾄ C
105	TCADZ1593FCZZ	AC	DJ	N	D	Process insert inst card ﾌﾟﾛｾｽ挿入手順書
106	GCŌVZ0237FCZZ	AZ	FQ	N	D	Dust cover (Yenen,Saudi Arabia, Oman,Qutar,Bahrain,Kuwait,UAE) ﾀﾞｽﾄｶﾊﾞｰ

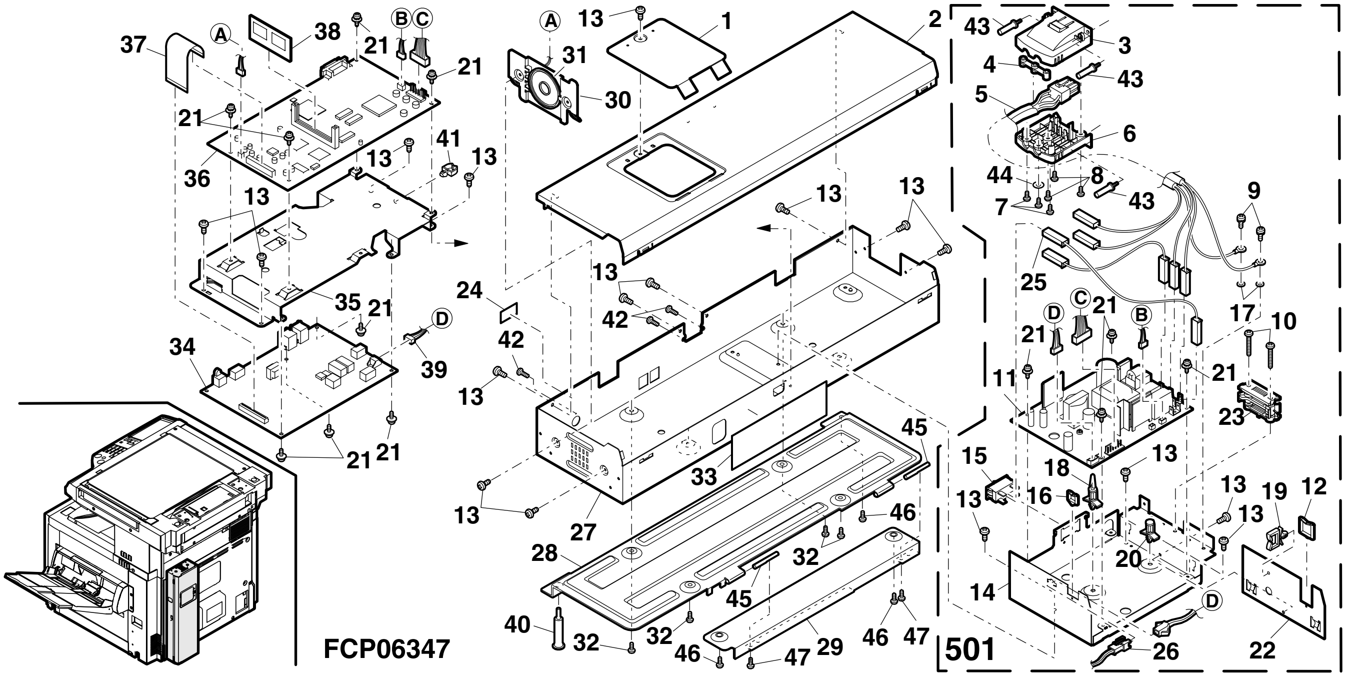
36 梱包材＆付属品 (Packing Material & Accessories)



37 FAX BOX unit(AR-C260F/AR-C260FP)

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION	
		Ex.	Ja.				
1	PCOVP1564FCZZ	AF	DS		D	FAX ROM cover	FAX ROM ｶﾊﾞｰ
2	GCAB-0947FCZZ	AT	EZ		D	FAX rear cabinet	FAX 後ｷｬﾋﾞ
3	LHLDZ1494FCZZ	AF	DS		C	FAX AC cord holder B	FAX AC ｺｰﾄﾞﾎﾙﾀﾞｰB
4	LFiX-0567FCZZ	AD	DJ		C	FAX holder cord fixing plate	FAX ﾎﾙﾀﾞｰｺｰﾄﾞ押え
5	DHAi-3441FCZZ	AV	FG	N	C	FAX power supply harness	FAX 電源ﾊｰﾈｽ
6	LHLDZ1493FCZZ	AF	DS		C	FAX AC cord holder C	FAX AC ｺｰﾄﾞﾎﾙﾀﾞｰC
7	XEBSE30P12000	AA	DD		C	Screw(3×12)	ﾋﾞｽ
8	XEBSE30P10000	AA	DD		C	Screw(3×10)	ﾋﾞｽ
9	XBPSD40P06K00	AA	DD		C	Screw(4×6K)	ﾋﾞｽ
10	XBPSD40P40XS0	AA	DD		C	Screw(4x40XS)	ﾋﾞｽ
11	RDENC0004FCZZ	BV	RB		E	FAX AC power supply unit	FAX AC 電源基板
12	LBSHZ1001ACZZ	AB	DD		C	Edge saddle	ｴｯｼﾞｻﾄﾞﾙ
13	XHBSE30P06000	AA	DD		C	Screw(3×6)	ﾋﾞｽ
14	LPLTM5788FCZZ	AP	EQ		C	FAX power supply fixing plate	FAX 電源取付板
15	QSW-C9295QCZZ	AL	EB		B	FAX power supply switch(ALP SDDJF3)	FAX 電源ｽｲｯﾁ
16	LBSHZ2050SCZZ	AB	DD		C	Edge saddle(EDS-1208U)	ｴｯｼﾞｻﾄﾞﾙ
17	LX-WZ0443FCZZ	AB	DD		C	Washer	ｱｰｽ用ﾋﾗﾜｯｼｬｰ
18	LSUPP0118FCZZ	AB	DJ		C	PWB supporter(SPLSN6)	基板ｻﾎﾟｰﾀｰ
19	LHLDW1499FCZZ	AC	DJ		C	Wire saddle(WS-2U)	ﾜｲﾔｰｻﾄﾞﾙ
20	LSUPP0076FCZZ	AA	DD		C	PWB supporter(SPSN6U)	基板ｻﾎﾟｰﾀｰ
21	XBPSD30P08KS0	AA	DD		C	Screw(3x8KS)	ﾋﾞｽ
22	LPLTM5892FCZZ	AD	DJ		C	FAX separate plate	FAX 仕切り板
23	LFiX-0560FCZZ	AF	DS		C	FAX AC cord fixing plate	FAX AC ｺｰﾄﾞ押え
24	PSHEZ4933FCZZ	AD	DJ		C	FAX MD cover sheet	FAX MD ｶﾊﾞｰｼｰﾄ
25	DHAi-3207FC11	AG	DX	N	C	FAX switch harness	FAX ｽｲｯﾁﾊｰﾈｽ
26	DHAi-3204FC11	AM	EG	N	C	FAX BOX harness	FAX BOX ﾊｰﾈｽ
27	GCAB-0946FCZ2	AZ	FQ		D	FAX front cabinet B	FAX 前ｷｬﾋﾞ B
28	LPLTM6075FCZ1	AS	EQ	N	C	FAX fixing plate N	FAX 取付板 N
29	LPLTM6108FCZZ	AF	DS	N	C	FAX fixing plate B	FAX 取付板 B
30	LPLTM5789FCZZ	AF	DS		C	Speaker fixing plate	ｽﾋﾟｰｶｰ取付板
31	DUNT-7136FCA1	AN	EQ	N	E	FAX speaker unit	FAX ｽﾋﾟｰｶｰﾕﾆｯﾄ
32	XHBSE40P05000	AB	DD		C	Screw(4×5)	ﾋﾞｽ
33	PSHEZ4879FCZZ	AH	DX		C	FAX front sheet	FAX 前ｼｰﾄ
34	CPWBN1491FCE1	CA	TV		E	TEL/LIU PWB	TEL/LIU 基板
35	LPLTM5787FCZZ	AQ	EQ		C	FAX PWB fixing plate	FAX 基板取付板
36	CPWBN1472FCE4	CG	UM		E	Modem control PWB	ﾓﾃﾞﾑｺﾝﾄﾛｰﾙ基板
37	QCNW-0210FCZZ	AE	DJ		C	FAX interface FFC	FAX 中継 FFC
38	VHi28F082L06S	BF	GN	N	E	FAX FLASH ROM(28F082L06S)	FAX ﾌﾗｯｼｭﾛﾑ
39	DHAi-3206FC11	AG	DX	N	C	CIP interface harness	CIP ﾁｭｳｹｲﾊｰﾈｽ
40	LX-BZ0962FCZ1	AF	DS	N	C	Screw	ﾋﾞｽ
41	LHLDW2087SCZZ	AA	DD	N	C	Mini clamp	ﾐﾆｸﾗﾝﾌﾟ
42	XBPSE26P08000	AA	DD		C	Screw(2.6×8)	ﾋﾞｽ
43	LX-BZ0938FCZZ	AC	DD		C	Screw	ﾋﾞｽ
44	XWHSE30-05080	AA	DD		C	Washer	ﾋﾗ ﾜｯｼｬ
45	NSFTZ2738FCZZ	AD	DJ	N	C	FAX fixing shaft	FAX 取付ｼｬﾌﾄ
46	XHBSE40P08000	AA	DD		C	Screw(4×8)	ﾋﾞｽ
47	XHBSE40P10000	AA	DD		C	Screw(4×10)	ﾋﾞｽ
501	CPLTM5788FCE4	BS	MW	N	E	FAX power supply unit	FAX 電源ﾕﾆｯﾄ

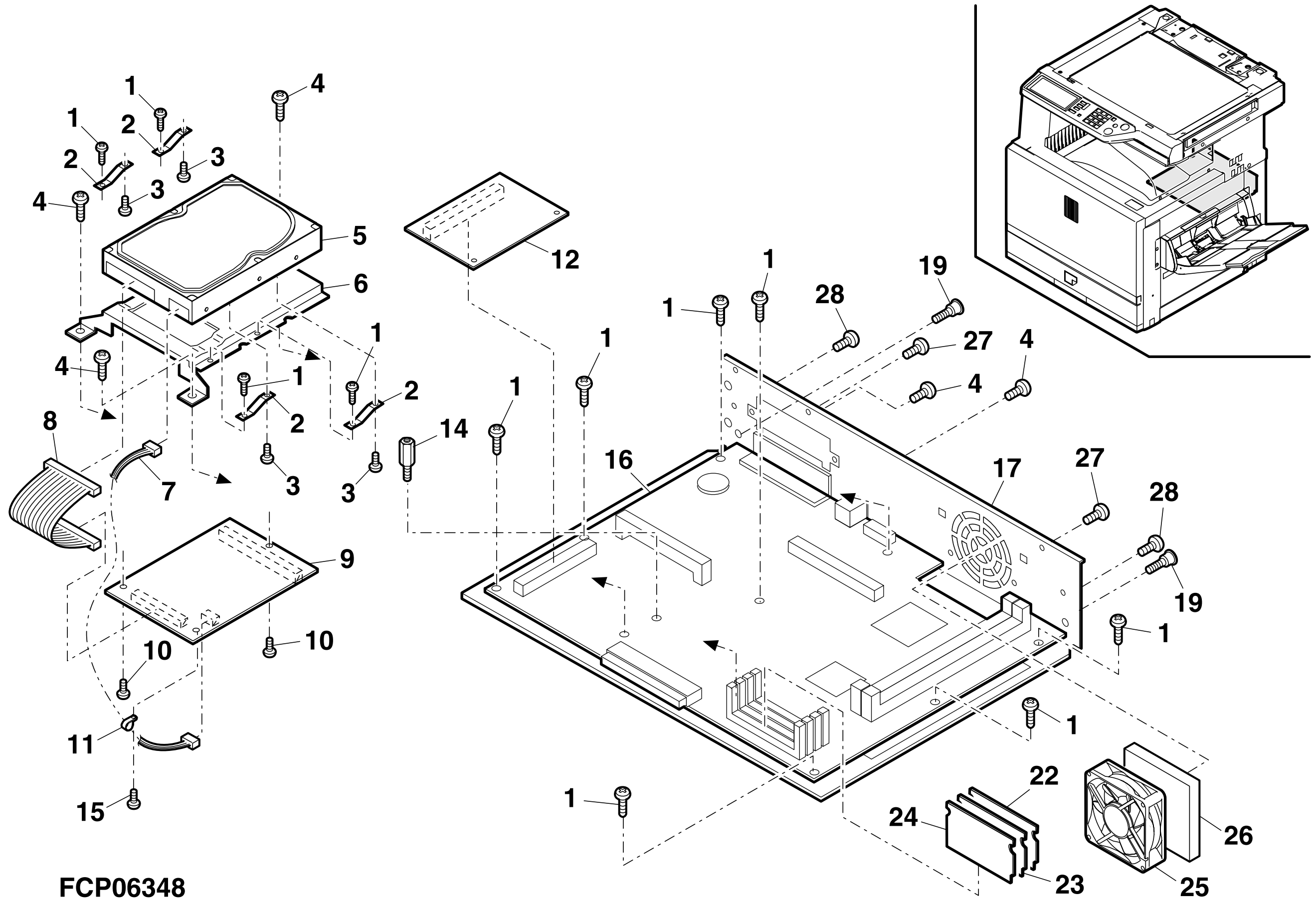
37 FAX BOX unit(AR-C260F/AR-C260FP)



38 ﾌﾟﾘﾝﾀｺﾝﾄﾛｰﾗｰ部 (Printer controler section)[AR-C260M/AR-C260FP]

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION	
		Ex.	Ja.				
1	XHBSD30P06000	AA	DD		C	Screw(3×6)	ﾋﾞｽ
2	MSPRP3168FCZZ	AC	DJ	N	C	HDD spring	HDD ｽﾌﾟﾘﾝｸﾞ
3	LX−BZ1022LCZZ	AB	DD		C	Screw	ﾋﾞｽ
4	XBPSE30P06000	AA	DD		C	Screw(3×6)	ﾋﾞｽ
5	DUNT−7269FCZZ	CD	UD		E	HDD	HDD
6	LPLTM6028FCZZ	AL	EB	N	C	HDD fixing plate	HDD 取付けﾌﾟﾚｰﾄ
7	DHAi−3454FCZZ	AK	DX	N	C	HDD P/S harness	HDD 電源ﾊｰﾈｽ
8	DHAi−3453FCZZ	AV	FG	N	C	HDD IDE harness	HDD IDE ﾊｰﾈｽ
9	CPWBN1534DS52	BP	LP	N	E	HDD PWB	HDD 基板
10	XHBSD30P05000	AA	DD		C	Screw(3×5)	ﾋﾞｽ
11	LBNDJ0016FCZZ	AA	DD		C	Band	ﾊﾞﾝﾄﾞ
12	CPWBN1521DS51	BM	HR	N	E	SCN IF PWB	SCN IF PWB
14	LX−BZ0963FCZZ	AF	DS	N	C	Screw	ﾋﾞｽ
15	XHBSD30P08000	AA	DD		C	Screw(3×8)	ﾋﾞｽ
16	CPWBN1518DS55	EB	ZZ	N	E	Printer controler PWB	ﾌﾟﾘﾝﾀｺﾝﾄﾛｰﾗｰ基板
17	LPLTM5977FCZZ	AS	EQ	N	C	Controler PWB fixing plate	ｺﾝﾄﾛｰﾗ基板取付け板
19	LX−BZ0855FCZZ	AC	DD		C	Tension spring screw	ﾃﾝｼｮﾝｽﾌﾟﾘﾝｸﾞ段ﾋﾞｽ
22	VHi28F322L33F	BM	HR	N	E	Flash ROM KANJI [Japan only]	ﾌﾗｯｼｭ ROM 漢字
23	VHi28F322L32F	BG	GT	N	E	Flash ROM PCL	ﾌﾗｯｼｭ ROM PCL
24	VHi28F081L11F	AY	FQ	N	E	Flash ROM BOOT	ﾌﾗｯｼｭ ROM BOOT
25	NFANP0071FCZZ	AZ	FX	N	B	Fan	ﾌｧﾝ
26	LHLDZ1547FCZZ	AD	DJ	N	C	Fan holder	ﾌｧﾝﾎﾙﾀﾞｰ
27	XHBSE30P06000	AA	DD		C	Screw(3×6)	ﾋﾞｽ
28	LX−BZ0901FCZZ	AC	DD		C	Screw	ﾋﾞｽ

38 ﾌﾟﾘﾝﾀｺﾝﾄﾛｰﾗｰ部 (Printer controler section)[AR-C260M/AR-C260FP]



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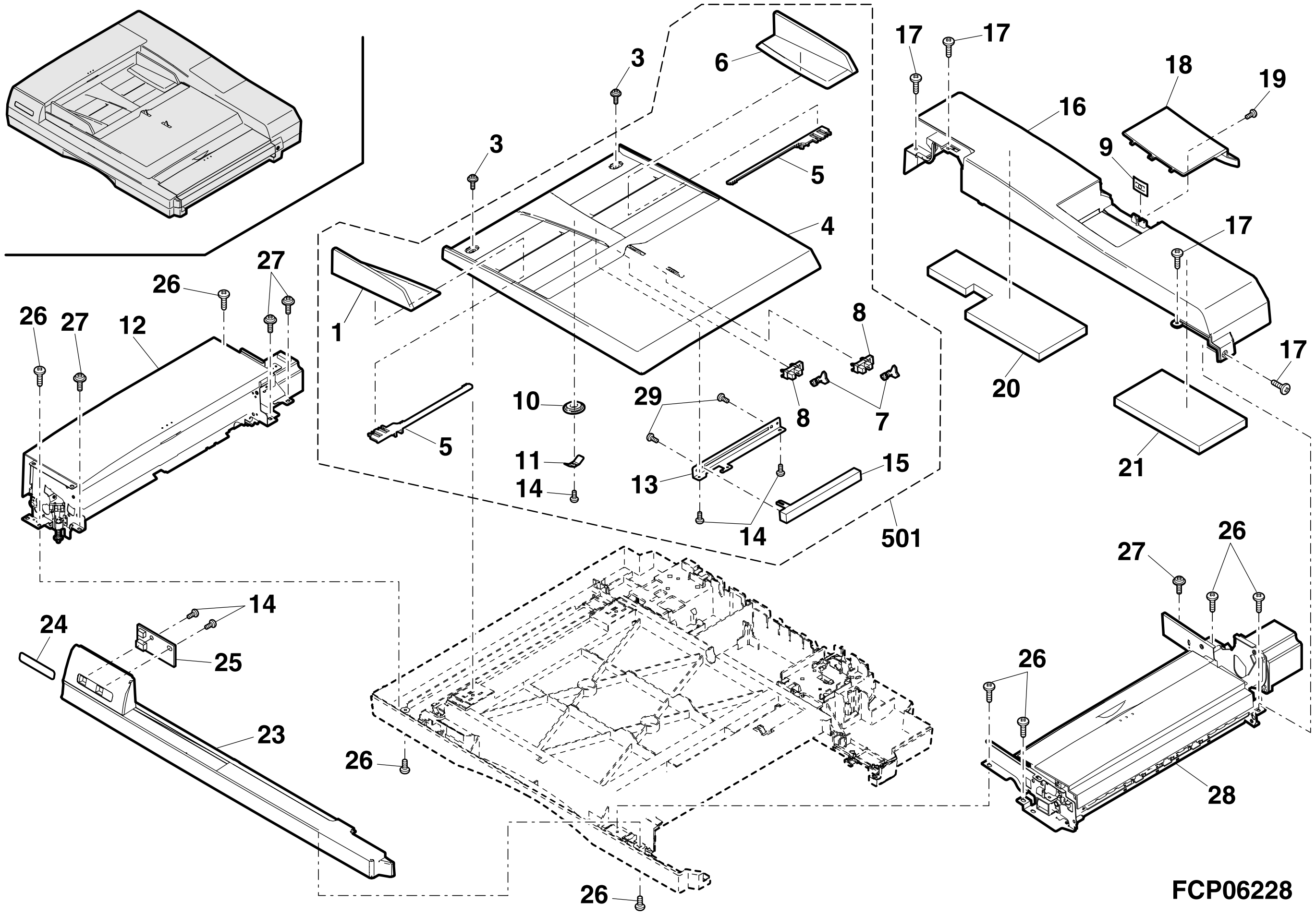
㊴ RADF 外装部 (RADF Exteriors)[AR-C260F/AR-C260FP]

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION	
		Ex.	Ja.				
1	０ＣＷ２２６９Ｐ０６８／／	AK	DX	N	C	Tray guide F	ﾄﾚｲｶﾞｲﾄﾞ　F
3	０ＣＷ０４０１００ＦＮｉＴ	AB	DJ	N	C	Screw(M4IT)	ﾋﾞｽ
4	０ＣＷ２２６９Ｐ００４／／	BB	GD	N	C	Paper feeding tray	給紙ﾄﾚｲ
5	０ＣＷ２２６８Ｐ０８４／／	AF	DS	N	C	Tray rack gear	ﾄﾚｲﾗｯｸｷﾞﾔ
6	０ＣＷ２２６９Ｐ０６９／／	AK	DX	N	C	Tray guide R	ﾄﾚｲｶﾞｲﾄﾞ　R
7	０ＣＷ２２６９Ｐ０７７／／	AL	EB	N	C	Tray sensor lever	ﾄﾚｲｾﾝｻｰﾚﾊﾞｰ
8	０ＣＷＥ３１４０００６１９	AH	DX		B	Photo interrupter	ﾌｫﾄｲﾝﾀﾗﾌﾟﾀｰ
9	０ＣＷ６６０５８０／／／／	AA	DD		C	Nut	ﾅｯﾄ
10	０ＣＷ２２６８Ｐ０８５／／	AE	DJ	N	C	Tray pinion gear	ﾄﾚｲﾋﾟﾆｵﾝｷﾞﾔ
11	０ＣＷ２２６８Ｐ１７０／／	AE	DS	N	C	Tray spring	ﾄﾚｲｲﾀﾊﾞﾈ
12	０ＣＷ２２６９Ｋ０３２／／	CB	TZ	N	E	Paper feeding unit	給紙ﾕﾆｯﾄ
13	０ＣＷ２２１４Ｐ１２８Ｂ／	AK	DX	N	C	Slide switch bracket	ｽﾗｲﾄﾞｽｲｯﾁﾌﾞﾗｹｯﾄ
14	０ＣＷ２１８５Ｐ３５７Ａ／	AA	DJ		C	Screw(M3×8)	ﾋﾞｽ
15	０ＣＷ２２６９Ｋ２３２／／	AY	FQ	N	B	Harness	ﾊｰﾈｽ
16	０ＣＷ２２６９Ｐ００３／／	BA	FX	N	C	Rrar cover	ﾘﾔｶﾊﾞｰ
17	０ＣＷ０４００８０ＦＮＢｉ	AA	DD		C	Screw	ﾋﾞｽ
18	０ＣＷ２２６９Ｐ００９／／	AP	EQ	N	C	Rear sub cover	ﾘﾔｻﾌﾞｶﾊﾞｰ
19	０ＣＷ２１５８Ｐ３２２Ａ／	AC	DJ	N	C	Screw	ﾋﾞｽ
20	０ＣＷ２２６９Ｐ３６５／／	AV	FG	N	C	Rrar cover sound proof cushion 1	ﾘｱｶﾊﾞｰ防音ｽﾎﾟﾝｼﾞ　1
21	０ＣＷ２２６９Ｐ３６６／／	AS	EQ	N	C	Rrar cover sound proof cushion 2	ﾘｱｶﾊﾞｰ防音ｽﾎﾟﾝｼﾞ　2
23	０ＣＷ２２６９Ｐ００２／／	AX	FQ	N	C	Front cover	ﾌﾛﾝﾄｶﾊﾞｰ
24	０ＣＷ２２６９Ｐ３８１／／	AL	EB	N	C	LED label	LED ﾗﾍﾞﾙ
25	０ＣＷ２２６９Ｋ２０７／／	AH	DX	N	E	LED PWB	LED ｷﾊﾞﾝ
26	０ＣＷ４０５４Ｐ２２０Ｄ／	AB	DJ		C	Screw	ﾋﾞｽ
27	０ＣＷ０４００８０ＦＺＴＰ	AA	DD		C	Screw(M4×8)	ﾋﾞｽ
28	０ＣＷ２２６９Ｋ０６６／／	BY	TF	N	D	Reverse unit	反転ﾕﾆｯﾄ
29	０ＣＷ０３００６０ＦＺＷＳ	AA	DD		C	Screw	ﾋﾞｽ
501	０ＣＷ２２６９Ｋ０６４／／	BG	GT	N	D	Tray unit	ﾄﾚｲﾕﾆｯﾄ

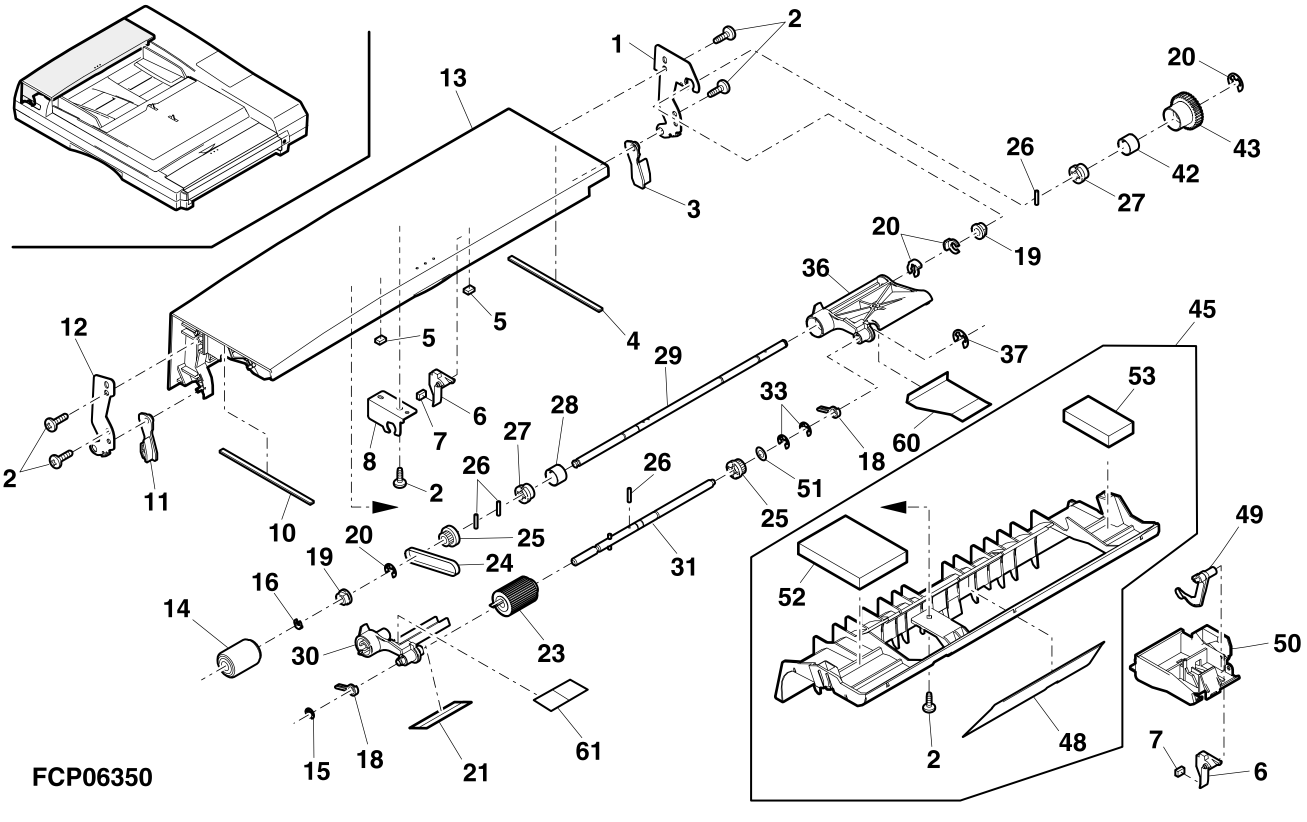
㊴ RADF 外装部 (RADF Exteriors)[AR-C260F/AR-C260FP]



40 RADF 給紙部 1 (RADF Paper feeding section 1)[AR-C260F/AR-C260FP]

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION	
		Ex.	Ja.				
1	0CW2269P133／／	AG	DX	N	C	Paper feeding bracket R	給紙ｼﾃﾝﾌﾞﾗｹｯﾄ R
2	0CW2254P494A／	AB	DJ	N	C	Screw(M4×8)	ﾋﾞｽ
3	0CW2268P057／／	AE	DJ	N	C	Resist arm R	ﾚｼﾞｱｰﾑ R
4	0CW2269P368／／	AF	DS	N	C	Reverse cover seal cushion F	反転ｶﾊﾞｰｼｰﾙｽﾎﾟﾝｼﾞ F
5	0CW2269P362／／	AD	DJ	N	C	Stopper cushion	ﾋﾟｯｸｽﾄｯﾊﾟｰｽﾎﾟﾝｼﾞ
6	0CW2269P054D／	AE	DS	N	C	Shutter	ｼｬｯﾀｰ
7	0CW2269P350／／	AD	DJ	N	C	Shutter cushion	ｼｬｯﾀｰｽﾎﾟﾝｼﾞ
8	0CW2269P139／／	AE	DS	N	C	Bracket	ﾌﾞﾝﾘﾌﾞﾗｹｯﾄ
10	0CW2269P364／／	AF	DS	N	C	Paper feeding cover seal cushion	給紙ｶﾊﾞｰｼｰﾙｽﾎﾟﾝｼﾞ
11	0CW2268P056／／	AE	DJ	N	C	Resist arm F	ﾚｼﾞｱｰﾑ F
12	0CW2269P132／／	AE	DS	N	C	Paper feeding bracket F	給紙ｼﾃﾝﾌﾞﾗｹｯﾄ F
13	0CW2269P007／／	AZ	FQ	N	D	Paper feeding opening/closing cover	給紙開閉ｶﾊﾞｰ
14	0CW2269P301／／	AV	FG	N	B	Paper feeding roller	給紙ﾛｰﾗｰ
15	0CW2269P361／／	AD	DJ	N	C	Ring 5	ﾋﾟｱｽﾘﾝｸﾞ 5
16	0CW2252P620C／	AD	DJ	N	C	Clip 4	ｸﾘｯﾌﾟ 4
18	0CW2269P052／／	AD	DJ	N	C	Shutter stopper	ｼｬｯﾀｰｽﾄｯﾊﾟｰ
19	0CW2225P312A／	AD	DJ	N	C	Bearing	ｼﾞｸｳｹ
20	0CWER050SKP／／	AA	DD	N	C	E-ring 5	E ﾘﾝｸﾞ 5
21	0CW2269P341B／	AF	DS	N	C	Arm F sheet	ﾋﾟｯｸｱｰﾑ F ﾏｲﾗｰ
23	0CW2269P300／／	AN	EQ	N	B	Roller	ﾋﾟｯｸﾛｰﾗｰ
24	0CWNSBLT00056	AN	EG		C	Timing belt	ﾀｲﾐﾝｸﾞﾍﾞﾙﾄ
25	0CW2261P055A／	AC	DJ	N	C	Pulley	ﾌﾟｰﾘｰ
26	0CWHP02010SCH	AC	DJ	N	C	Pin(2×10)	ﾍｲｺｳﾋﾟﾝ
27	0CW2261P023E／	AD	DJ	N	C	Arbor	ｱｰﾊﾞｰ
28	0CW2269P316／／	AH	DX	N	C	Spring clutch	ﾋﾟｯｸﾊﾞﾈｸﾗｯﾁ
29	0CW2269P206／／	AQ	EQ	N	C	Roller shaft	ﾌｨｰﾄﾞﾛｰﾗｼｬﾌﾄ
30	0CW2269P061E／	AG	DX	N	C	Arm F	ﾋﾟｯｸｱｰﾑ F
31	0CW2269K061／／	AL	EB	N	C	Roller shaft unit	ﾋﾟｯｸﾛｰﾗｰｼｬﾌﾄﾕﾆｯﾄ
33	0CWER040SKP／／	AB	DD	N	C	E-ring 4	E ﾘﾝｸﾞ 4
36	0CW2269P062／／	AN	EG	N	C	Arm R	ﾋﾟｯｸｱｰﾑ R
37	0CW2166P034B／	AC	DJ		C	Clip 5	ｸﾘｯﾌﾟ 5
42	0CW2269P318／／	AH	DX	N	C	Gear spring clutch	ﾋﾟｯｸｷﾞﾔﾊﾞﾈｸﾗｯﾁ
43	0CW2260P002A／	AE	DJ	N	C	Gear	ｷﾞﾔ
45	0CW2269K062B／	AU	EZ	N	E	Paper feeding upper guide unit	給紙上ｶﾞｲﾄﾞﾕﾆｯﾄ
48	0CW2269P344D／	AG	DS	N	C	Paper feeding sheet	給紙ﾏｲﾗｰ
49	0CW2269P053／／	AE	DS	N	C	Sensor lever	ｴﾝﾌﾟﾃｨｾﾝｻｰﾚﾊﾞｰ
50	0CW2269P071D／	AH	DX	N	C	Paper feeding maintenace cover	給紙ﾒﾝﾃﾅﾝｽｶﾊﾞｰ
51	0CW2268P076B／	AD	DJ	N	C	Flange	ﾌﾗﾝｼﾞ
52	0CW2269P355A／	AH	DX	N	C	Cushion	ｽﾎﾟﾝｼﾞ
53	0CW2269P356A／	AF	DS	N	C	Cushion	ｽﾎﾟﾝｼﾞ
60	0CW2269P459／／	AG	DS	N	C	Mylar R	ﾏｲﾗｰ R
61	0CW2269P460／／	AE	DS	N	C	Pick-up arm F mylar 2	ﾋﾟｯｸｱｯﾌﾟｱｰﾑ F ﾏｲﾗｰ 2

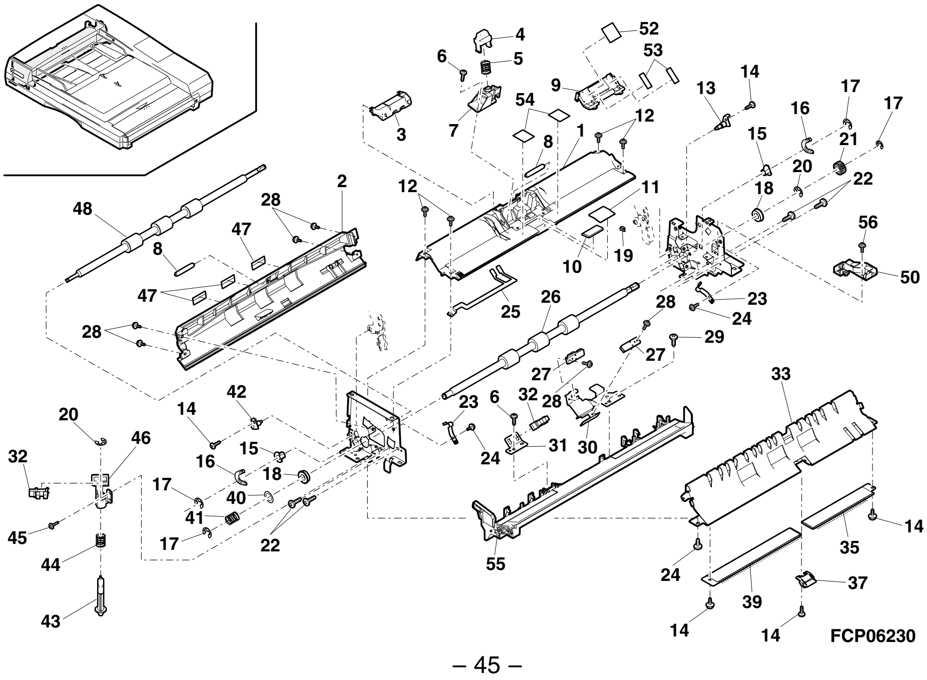
40 RADF 給紙部 1 (RADF Paper feeding section 1)[AR-C260F/AR-C260FP]



㊶ RADF 給紙部 2 (RADF Paper feeding section 2)[AR-C260F/AR-C260FP]

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION	
		Ex.	Ja.				
1	0CW2269P010／／	AS	EQ	N	C	Transport guide	搬送ｶﾞｲﾄﾞ
2	0CW2269P011／／	AQ	EQ	N	C	Resist guide U	ﾚｼﾞｶﾞｲﾄﾞ U
3	0CW2269K094C／	AZ	FX	N	B	Separation pad unit	分離ﾊﾟｯﾄﾕﾆｯﾄ
4	0CW2269P065／／	AE	DS	N	C	Separation spring cover	分離ﾊﾞﾈｶﾊﾞｰ
5	0CW2269P349B／	AD	DJ	N	C	Separation spring	分離ﾊﾞﾈ
6	0CW2185P357A／	AA	DJ		C	Screw(M3×8)	ﾋﾞｽ
7	0CW2269P066／／	AF	DS	N	C	Separation spring holder	分離ﾊﾞﾈﾎﾙﾀﾞｰ
8	0CW2268P071／／	AE	DJ	N	C	Collar	ﾃｲｹﾞﾝｺﾛ
9	0CW2269K047／／	AR	EQ	N	B	Front plate rubber + cover	ﾏｴｻﾊﾞｷｺﾞﾑ＋ｶﾊﾞｰ
10	0CW2269P320／／	AE	DS	N	B	Lower cushion	ﾋﾟｯｸ下ｽﾎﾟﾝｼﾞ
11	0CW2269P311／／	AG	DX	N	B	Lower moquette	ﾋﾟｯｸ下ﾓｹｯﾄ
12	0CW030080FNWS	AA	DJ		C	Screw(M3×8)	ﾋﾞｽ
13	0CW2268K041A／	AG	DX	N	C	Fulcrum bracket unit R	ｼﾃﾝﾌﾞﾗｹｯﾄｶｼﾒﾕﾆｯﾄ R
14	0CW2164P330A／	AB	DJ		C	Screw(M3×6)	ﾋﾞｽ
15	0CW2247P326A／	AF	DS	N	C	Bearing MF	ｼﾞｸｳｹ MF
16	0CW2268P354／／	AG	DX	N	C	Resist spring	ﾚｼﾞｽﾄｽﾌﾟﾘﾝｸﾞ
17	0CWER050SKP／／	AA	DD	N	C	E-ring 5	E ﾘﾝｸﾞ 5
18	0CWNSBRG00019	AQ	EQ	N	C	Bearing(ϕ8)	ﾍﾞｱﾘﾝｸﾞ
19	0CW2252P620C／	AD	DJ	N	C	Clip 4	ｸﾘｯﾌﾟ 4
20	0CWER070SKP／／	AA	DD	N	C	E-ring 7	E ﾘﾝｸﾞ 7
21	0CW2268P073／／	AD	DJ	N	C	Grar	ｷﾞﾔ
22	0CW2254P494A／	AB	DJ	N	C	Screw(M4×8)	ﾋﾞｽ
23	0CW2214P455C／	AE	DS	N	C	Plate spring	ﾛｯｸｲﾀﾊﾞﾈ
24	0CW030060FZTP	AA	DD		C	Screw(M3×6)	ﾋﾞｽ
25	0CW2269P324／／	AE	DS	N	C	Empty earth sheet	ｴﾝﾌﾟﾃｨｰｱｰｽｼｰﾙ
26	0CW2269P334／／	AY	FQ	N	B	Resist roller	ﾚｼﾞｽﾄﾛｰﾗｰ
27	0CW2240P835A／	AT	EZ	N	B	Reverse sensor	反射ｾﾝｻｰ
28	0CW030080FZWS	AA	DD		C	Screw	ﾋﾞｽ
29	0CW040060FNBB	AB	DJ		C	Screw(M4×6)	ﾋﾞｽ
30	0CW2269P115／／	AL	EB	N	C	Resist sensor bracket	ﾚｼﾞｽﾄｾﾝｻｰﾌﾞﾗｹｯﾄ
31	0CW2269P149／／	AE	DJ	N	C	Sensor bracket	ｴﾝﾌﾟﾃｨｾﾝｻｰﾌﾞﾗｹｯﾄ
32	0CWE314000619	AH	DX		B	Photo interrupter	ﾌｫﾄｲﾝﾀﾗﾌﾟﾀｰ
33	0CW2269P109／／	AT	EZ	N	C	Resist guide L	ﾚｼﾞｶﾞｲﾄﾞ L
35	0CW2269P332／／	AR	EQ	N	C	Discharge brush R	給紙除電ﾌﾞﾗｼ R
37	0CW2269K042B／	AG	DX	N	C	Sensor seal unit	反射ｾﾝｻｰｼｰﾙﾕﾆｯﾄ
39	0CW2269P331／／	AT	EZ	N	C	Discharge brush F	給紙除電ﾌﾞﾗｼ F
40	0CWPW080025／／	AB	DJ	N	C	Poly slider	ﾎﾟﾘｽﾗｲﾀﾞｰ
41	0CW2269P315／／	AD	DJ	N	C	Spring	ﾚｼﾞﾛｰﾗｽﾗｽﾄﾊﾞﾈ
42	0CW2268K040B／	AG	DX	N	C	Fulcrum bracket unit F	支点ﾌﾞﾗｹｯﾄｶｼﾒﾕﾆｯﾄ F
43	0CW2254P058A／	AE	DJ	N	C	Sensor lever	ｵｰﾌﾟﾝｾﾝｻｰﾚﾊﾞｰ
44	0CW2254P338A／	AC	DJ	N	C	Spring holder SP	ﾊﾞﾈﾎﾙﾀﾞｰ SP
45	0CW030060FZSW	AA	DD		C	Screw	ﾋﾞｽ
46	0CW2269P038／／	AE	DS	N	C	Sensor holder	ｵｰﾌﾟﾝｾﾝｻｰﾎﾙﾀﾞｰ
47	0CW2268P336／／	AD	DJ	N	C	Resist guide sheet	ﾚｼﾞｽﾄ案内ﾏｲﾗｰ
48	0CW2268P303／／	BA	FX	N	C	Resist assist roller	ﾚｼﾞ従動ﾛｰﾗ
50	0CW2268P401／／	AG	DS	N	C	Harness guide 1	ﾊｰﾈｽｶﾞｲﾄﾞ 1
52	0CW2269P451A／	AF	DS	N	C	Separation sheet	分離ﾏｲﾗｰ
53	0CW2269P453A／	AE	DJ	N	C	Separation sheet	分離ﾏｲﾗｰ
54	0CW2269P455A／	AQ	EQ	N	C	Sub pad	ｻﾌﾞﾊﾟｯﾄﾞ
55	0CW2269P012A／	AM	EG	N	C	Lower frame	下ﾌﾚｰﾑ
56	0CW030060FZWS	AA	DD		C	Screw	ﾋﾞｽ

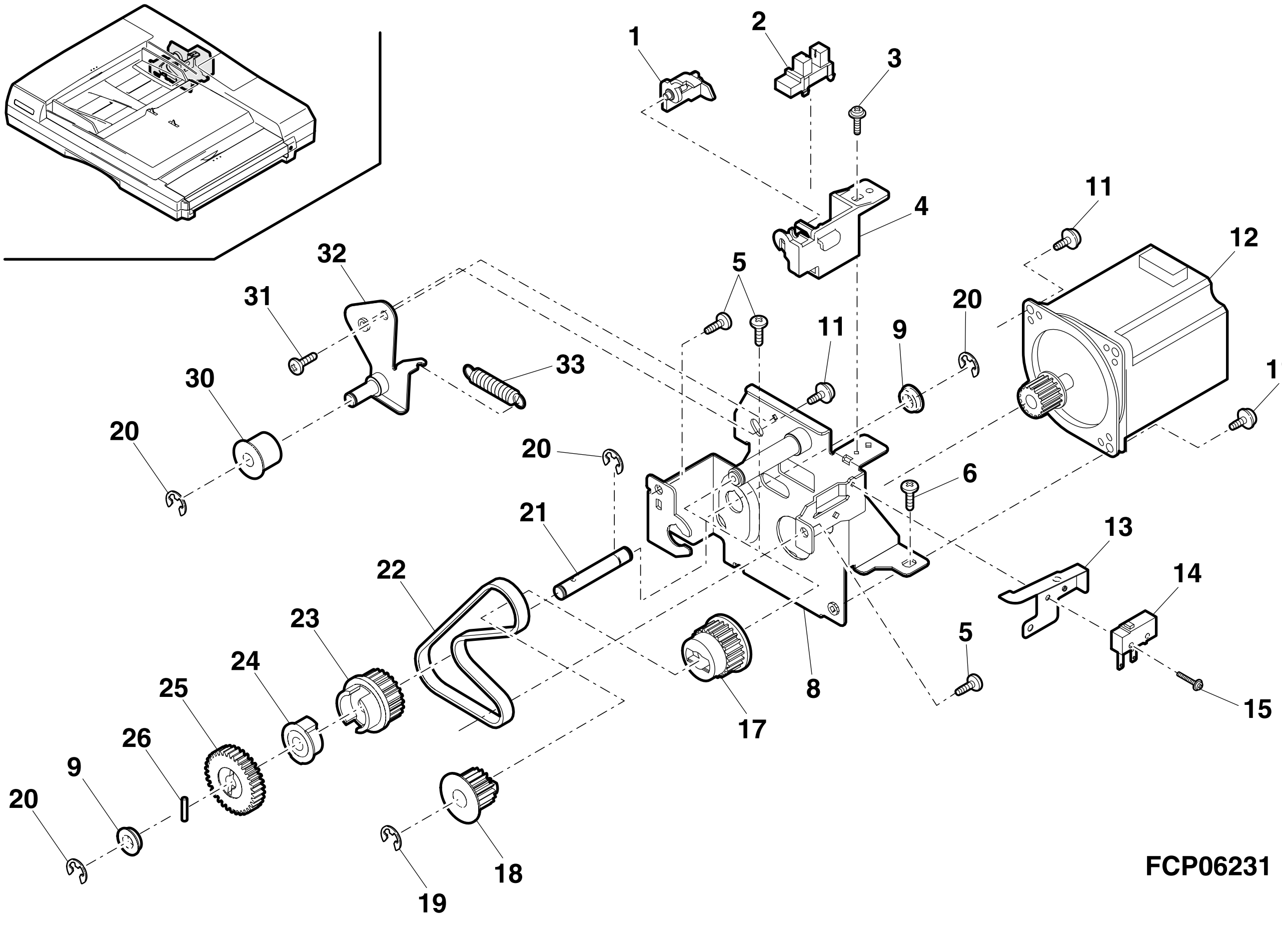
㊶ RADF 給紙部 2 (RADF Paper feeding section 2)[AR-C260F/AR-C260FP]



42 RADF 給紙駆動部 (RADF Paper feeding drive section)[AR-C260F/AR-C260FP]

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION	
		Ex.	Ja.				
1	0CW2269P055／／	AE	DS	N	C	Sensor lever	ｵｰﾌﾟﾝｾﾝｻﾚﾊﾞｰ
2	0CWE314000619	AH	DX		B	Photo interrupter	ﾌｫﾄｲﾝﾀﾗﾌﾟﾀｰ
3	0CW030080FZWS	AA	DD		C	Screw	ﾋﾞｽ
4	0CW2268P083／／	AF	DS	N	C	Sensor holder	ｵｰﾌﾟﾝｾﾝｻﾎﾙﾀﾞｰ
5	0CW2164P340A／	AA	DD		C	Screw(M4×7)	ﾋﾞｽ
6	0CW040080FZTP	AA	DD		C	Screw(M4×8)	ﾋﾞｽ
8	0CW2269K013／／	AU	EZ	N	C	Paper feeding motor bracket unit	給紙ﾓｰﾀｰﾌﾞﾗｹｯﾄﾕﾆｯﾄ
9	0CWNSBRG00016	AT	EZ		C	Braring(ϕ6)	ﾍﾞｱﾘﾝｸﾞ
11	0CW040080FZWS	AA	DD		C	Screw	ﾋﾞｽ
12	0CW2269K241B／	BL	HL	N	B	Paper feedig motor	給紙ﾓｰﾀｰ
13	0CW2269P171／／	AL	EB	N	C	Switch spring	ｽｲｯﾁｲﾀﾊﾞﾈ
14	0CWE120001648	AP	EQ	N	B	Microswitch	ﾏｲｸﾛｽｲｯﾁ
15	0CW023100FZWS	AB	DJ	N	C	Screw(M2.3×10)	ﾋﾞｽ
17	0CW2268P064／／	AG	DX	N	C	Pulley	ﾌﾟｰﾘｰ
18	0CW2268P065／／	AG	DX	N	C	Gear	ｷﾞﾔ
19	0CWER070SKP／／	AA	DD	N	C	E-ring 7	E ﾘﾝｸﾞ 7
20	0CWER050SKP／／	AA	DD	N	C	E-ring 5	E ﾘﾝｸﾞ 5
21	0CW2268P217／／	AK	EB	N	C	Paper feeding gear shaft	給紙ｷﾞﾔｼｬﾌﾄ
22	0CWNSBLT00277	AP	EQ	N	C	Timing belt	ﾀｲﾐﾝｸﾞﾍﾞﾙﾄ
23	0CW2269P057／／	AE	DS	N	C	Pulley	ﾌﾟｰﾘｰ
24	0CW2268P344／／	AP	EQ	N	C	Clutch	連結ﾜﾝｳｪｰｸﾗｯﾁ
25	0CW2268P066／／	AH	DX	N	C	Gear	ｷﾞﾔ
26	0CWHP02010SCH	AC	DJ	N	C	Pin(2×10)	ﾍｲｺｳﾋﾟﾝ
30	0CW2269P056／／	AD	DJ	N	C	Paper feeding tension collar	給紙ﾃﾝｼｮﾝｺﾛ
31	0CW2078P023B／	AC	DJ		C	Screw(M3)	ﾋﾞｽ
32	0CW2269K011／／	AH	DX	N	C	Paper feeding tension bracket unit	給紙ﾃﾝｼｮﾝﾌﾞﾗｹｯﾄﾕﾆｯﾄ
33	0CW2268P335／／	AD	DJ	N	C	Paper feeding tension spring	給紙ﾃﾝｼｮﾝﾊﾞﾈ

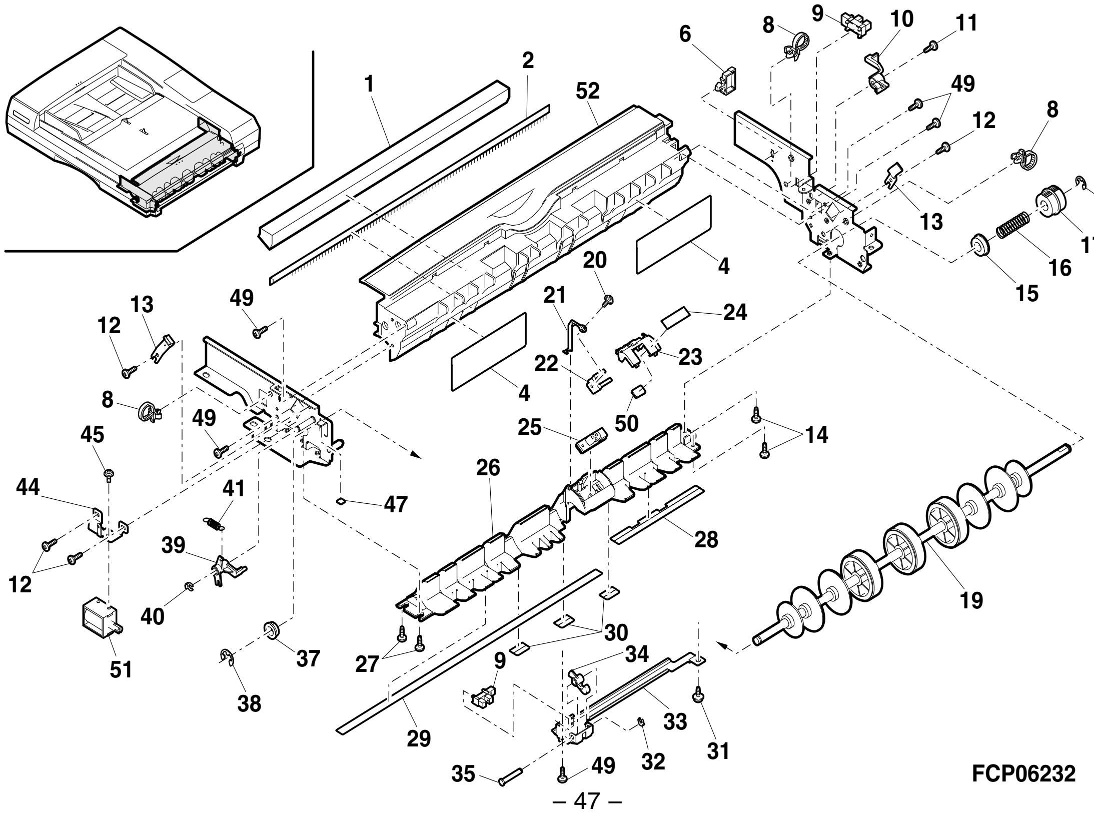
42 RADF 給紙駆動部 (RADF Paper feeding drive section)[AR-C260F/AR-C260FP]



43 RADF 排紙部 1 (RADF Delivery section 1)[AR-C260F/AR-C260FP]

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION
		Ex.	Ja.			
1	0CW2269P354//	AL	EB	N	C	Sound proof cushion 反転防音ｽﾎﾟﾝｼﾞ
2	0CW2269P306//	AQ	EQ	N	C	Discharge brush 反転ﾍﾞﾙﾄ口除電ﾌﾞﾗｼ
4	0CW2269P336//	AG	DX	N	C	Fixing sheet ｵｻｴﾏｲﾗｰ
6	0CWE450001139	AC	DJ	N	C	Clamp ｸﾗﾝﾌﾟ
8	0CWE450001128	AC	DJ		C	Tielap ﾀｲﾗｯﾌﾟ
9	0CWE314000619	AH	DX		B	Photo interrupter ﾌｫﾄｲﾝﾀﾗﾌﾟﾀｰ
10	0CW2269P017//	AE	DJ	N	C	Reverse lever 反転ｵｰﾌﾟﾝﾚﾊﾞｰ
11	0CW4062Q304B/	AC	DJ	N	C	Screw(M3) ﾋﾞｽ
12	0CW2164P330A/	AB	DJ		C	Screw(M3×6) ﾋﾞｽ
13	0CW2214P455C/	AE	DS	N	C	Plate spring ﾛｯｸｲﾀﾊﾞﾈ
14	0CW030080FZBi	AA	DJ		C	Screw(M3×8) ﾋﾞｽ
15	0CWNSBRG00019	AQ	EQ	N	C	Bearing(φ8) ﾍﾞｱﾘﾝｸﾞ
16	0CW2268P352//	AD	DJ	N	C	Reverse spring 反転ｽﾗｽﾄﾊﾞﾈ
17	0CW2268P078//	AE	DS	N	C	Pulley ﾌﾟｰﾘｰ
18	0CWER050SKP//	AA	DD	N	C	E-ring 5 E ﾘﾝｸﾞ 5
19	0CW2269P333//	BB	GD	N	B	Reverse roller 反転ﾛｰﾗｰ
20	0CW3085P334A/	AC	DJ	N	C	Screw(M3×4) ﾋﾞｽ
21	0CW2269P105//	AH	DX	N	C	Reverse sensor earth 反転ｾﾝｻｰｱｰｽ
22	0CW2269P106//	AF	DS	N	C	Reverse earth 反転ｱｰｽ
23	0CW2269P015//	AG	DS	N	C	Reverse roller guide cover 反転ﾛｰﾗｰｶﾞｲﾄﾞｶﾊﾞｰ
24	0CW2269P304//	AD	DJ	N	C	Reverse sensor sheet 反転ｾﾝｻｰﾏｲﾗｰ
25	0CW2240P835A/	AT	EZ	N	B	Reverse sensor 反射ｾﾝｻｰ
26	0CW2269P014C/	AW	FG	N	C	Reverse roller guide 反転ﾛｰﾗｰｶﾞｲﾄﾞ
27	0CW2078P086B/	AB	DD		C	Screw(M3) ﾋﾞｽ
28	0CW2269P340//	AF	DS	N	C	Reverse sensor harness sheet 反転ｾﾝｻｰﾊｰﾈｽﾏｲﾗｰ
29	0CW2269P359//	AN	EG	N	C	Reverse exit sheet 反転出口ﾏｲﾗｰ
30	0CW2269P358//	AD	DJ	N	C	Sheet ｽｸｲｱｹﾞﾏｲﾗｰ
31	0CW030060FZTP	AA	DD		C	Screw(M3×6) ﾋﾞｽ
32	0CW2129P188A/	AD	DJ	N	C	Clip 3 ｸﾘｯﾌﾟ 3
33	0CW2269P107//	AK	DX	N	C	Reverse roller guide bracket 反転ﾛｰﾗｰｶﾞｲﾄﾞﾌﾞﾗｹｯﾄ
34	0CW2269P016//	AD	DJ	N	C	Delivery lever 排紙ﾚﾊﾞｰ
35	0CW2269P207//	AF	DS	N	C	Delivery sensor lever shaft 排紙ｾﾝｻｰﾚﾊﾞｰｼｬﾌﾄ
37	0CW2078P652B/	AE	DS	N	C	Bearing 8 ｼﾞｸｳｹ 8
38	0CWER070SKP//	AA	DD	N	C	E-ring 7 E ﾘﾝｸﾞ 7
39	0CW2269P059//	AE	DJ	N	C	Reverse solenoid lever 反転ｿﾚﾉｲﾄﾞﾚﾊﾞｰ
40	0CW2252P620C/	AD	DJ	N	C	Clip 4 ｸﾘｯﾌﾟ 4
41	0CW2269P308//	AD	DJ	N	C	Solenoid spring ｿﾚﾉｲﾄﾞﾊﾞﾈ
44	0CW2269P142//	AF	DS	N	C	Solenoid bracket 反転ｿﾚﾉｲﾄﾞﾌﾞﾗｹｯﾄ
45	0CW030040FZWS	AA	DD		C	Screw(M3×4) ﾋﾞｽ
47	0CW2269P339//	AD	DJ	N	C	Solenoid lever cushion ｿﾚﾉｲﾄﾞﾚﾊﾞｰｽﾎﾟﾝｼﾞ
49	0CW2185P357A/	AA	DJ		C	Screw(M3×8) ﾋﾞｽ
50	0CW2269P389//	AD	DJ	N	C	Revers sensor cushion 反転ｾﾝｻｰｵｻｴｽﾎﾟﾝｼﾞ
51	0CW2269P440//	AT	EZ	N	C	Solenoid + Harness ｿﾚﾉｲﾄﾞ + ﾊｰﾈｽ
52	0CW2269P013//	AQ	EQ	N	C	Reverse guide 反転ｶﾞｲﾄﾞ

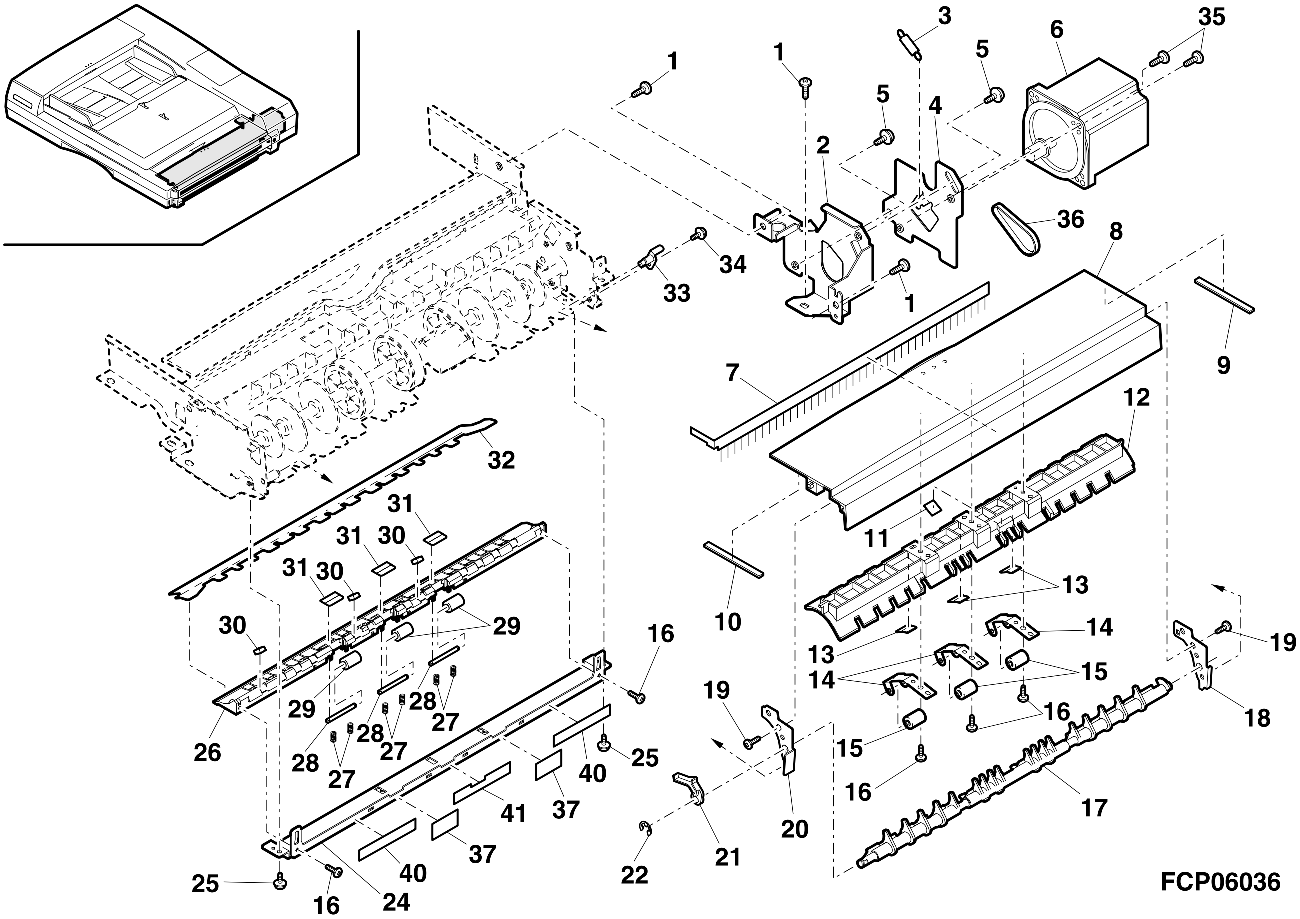
43 RADF 排紙部 1 (RADF Delivery section 1)[AR-C260F/AR-C260FP]



44 RADF 排紙部 2 (RADF Delivery section 2)[AR-C260F/AR-C260FP]

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION	
		Ex.	Ja.				
1	0CW4048P300A／	AC	DJ	N	C	Screw(M4×5)	ﾋﾞｽ
2	0CW2269P111／／	AN	EG	N	C	Reverse motor bracket	反転ﾓｰﾀｰﾌﾞﾗｹｯﾄ
3	0CW2268P360／／	AD	DJ	N	C	Reverse tension spring	反転ﾃﾝｼｮﾝﾊﾞﾈ
4	0CW2269P160A／	AG	DX	N	C	Reverse motor adjust bracket	反転ﾓｰﾀｰ調整ﾌﾞﾗｹｯﾄ
5	0CW040060FZWS	AA	DD		C	Screw(M4×6)	ﾋﾞｽ
6	0CW2268K522A／	BL	HL	N	B	Motor	ﾓｰﾀｰ
7	0CW2269P305／／	AQ	EQ	N	C	Discharge brush	排紙口除電ﾌﾞﾗｼ
8	0CW2269P006／／	AW	FG	N	C	Reverse cover	反転ｶﾊﾞｰ
9	0CW2269P369／／	AE	DS	N	C	Reverse cover seal cushion R	反転ｶﾊﾞｰｼｰﾙｽﾎﾟﾝｼﾞ R
10	0CW2269P368／／	AF	DS	N	C	Reverse cover seal cushion F	反転ｶﾊﾞｰｼｰﾙｽﾎﾟﾝｼﾞ F
11	0CW2269P338／／	AD	DJ	N	C	Reverse sensor cover seal	反射ｾﾝｻｰｼｰﾙ
12	0CW2269P005／／	AP	EQ	N	C	Reverse upper guide	反転上ｶﾞｲﾄﾞ
13	0CW2269P335／／	AD	DJ	N	C	Reverse collar front sheet	反転ｺﾛ前ﾏｲﾗｰ
14	0CW2269P128／／	AE	DS	N	C	Reverse plate spring U	反転ｲﾀﾊﾞﾈU
15	0CW2268P005A／	AD	DJ	N	C	Reverse collar	反転ｺﾛ
16	0CW2185P357A／	AA	DJ		C	Screw(M3×8)	ﾋﾞｽ
17	0CW2269P303／／	AY	FQ	N	C	Reverse flapper	反転ﾌﾗｯﾊﾟｰ
18	0CW2269P104／／	AF	DS	N	C	Reverse bracket R	反転ｼﾃﾝﾌﾞﾗｹｯﾄ R
19	0CW2254P494A／	AB	DJ	N	C	Screw(M4×8)	ﾋﾞｽ
20	0CW2269P112／／	AF	DS	N	C	Reverse bracket F	反転ｼﾃﾝﾌﾞﾗｹｯﾄ F
21	0CW2269P060／／	AE	DJ	N	C	Reverse flapper lever	反転ﾌﾗｯﾊﾟｰﾚﾊﾞｰ
22	0CWER040SKP／／	AB	DD	N	C	E-ring 4	E ﾘﾝｸﾞ 4
24	0CW2269P110／／	AP	EQ	N	C	Discharge bracket	排紙ﾌﾞﾗｹｯﾄ
25	0CW030060FZTP	AA	DD		C	Screw(M3×6)	ﾋﾞｽ
26	0CW2269P018／／	AQ	EQ	N	C	Discharge guide	排紙ｶﾞｲﾄﾞ
27	0CW2269P309／／	AC	DJ	N	C	Discharge collar spring	排紙ｺﾛﾊﾞﾈ
28	0CW2269P211／／	AG	DX	N	C	Discharge collar shaft	排紙ｺﾛｼｬﾌﾄ
29	0CW2269P357／／	AG	DX	N	C	Discharge collar	排紙ｺﾛ
30	0CW2269P351／／	AC	DJ	N	C	Flapper cushion	ﾌﾗｯﾊﾟｰｽﾎﾟﾝｼﾞ
31	0CW2269P337／／	AE	DJ	N	C	Discharge collar front sheet	排紙ｺﾛ前ﾏｲﾗｰ
32	0CW2269P307／／	AN	EQ	N	C	Sheet	ｽｸｲｱｹﾞﾏｲﾗｰ
33	0CW2269K016／／	AF	DS	N	C	Paper feeding bracket R unit	給紙ｼﾃﾝﾌﾞﾗｹｯﾄ R ﾕﾆｯﾄ
34	0CW3085P334A／	AC	DJ	N	C	Screw(M3×4)	ﾋﾞｽ
35	0CW040060FZBP	AB	DJ		C	Screw	ﾋﾞｽ
36	0CWNSBLT00278	AL	EB	N	C	Timing belt	ﾀｲﾐﾝｸﾞﾍﾞﾙﾄ
37	0CW2269P399A／	AE	DS	N	C	Sheet	ﾏｲﾗｰ
40	0CW2260P457／／	AP	EQ	N	C	Discharge mylar S	除電ﾏｲﾗｰ S
41	0CW2260P458／／	AN	EQ	N	C	Discharge mylar C	除電ﾏｲﾗｰ C

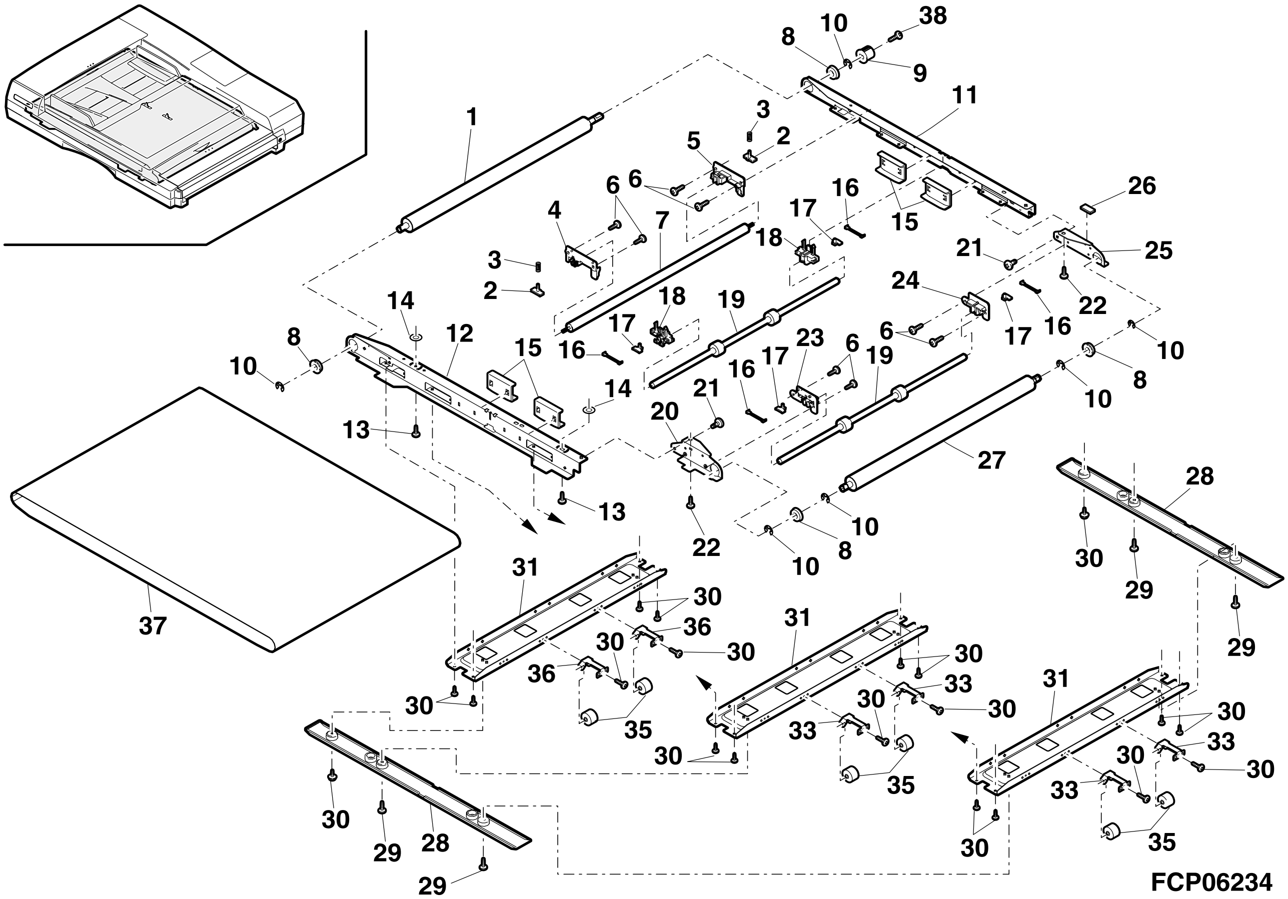
44 RADF 排紙部 2 (RADF Delivery section 2)[AR-C260F/AR-C260FP]



㊺ RADF 搬送部 (RADF Transport section)[AR-C260F/AR-C260FP]

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION	
		Ex.	Ja.				
1	0CW2269P327／／	BA	FX	N	C	Belt roller L	ﾍﾞﾙﾄﾛｰﾗ左
2	0CW2164P142A／	AE	DS		C	Belt roller spring holder	ﾍﾞﾙﾄﾛｰﾗﾊﾞﾈｳｹ
3	0CW2205P360A／	AD	DJ	N	C	Roller spring	ｵﾄｼﾛｰﾗｰﾊﾞﾈ
4	0CW2269P029／／	AG	DS	N	C	Roller holder F	ｵﾄｼﾛｰﾗｰﾎﾙﾀﾞｰF
5	0CW2269P025／／	AG	DS	N	C	Roller holder R	ｵﾄｼﾛｰﾗｰﾎﾙﾀﾞｰR
6	0CW030060FZBP	AA	DD		C	Screw	ﾋﾞｽ
7	0CW2269P343／／	AZ	FQ	N	C	Roller	ｵﾄｼﾛｰﾗｰ
8	0CWNSBRG00019	AQ	EQ	N	C	Bearing(ϕ8)	ﾍﾞｱﾘﾝｸﾞ
9	0CW2269P099A／	AD	DJ	N	C	Pulley	ﾌﾟｰﾘｰ
10	0CWER070SKP／／	AA	DD	N	C	E-ring 7	E ﾘﾝｸﾞ 7
11	0CW2269P120／／	AP	EQ	N	C	DF side plate R	DF ｿｸﾊﾞﾝR
12	0CW2269P119／／	AQ	EQ	N	C	DF side plate F	DF ｿｸﾊﾞﾝF
13	0CW040080FNBi	AA	DD		C	Screw	ﾋﾞｽ
14	0CW2198P374A／	AC	DJ	N	C	Washer(M4)	ﾜｯｼｬｰ
15	0CW2214P044A／	AF	DS	N	C	Belt guide	ﾍﾞﾙﾄｶﾞｲﾄﾞ
16	0CW2205P147A／	AG	DX	N	C	Roller plate spring	ｵｻｴﾛｰﾗｰｲﾀﾊﾞﾈ
17	0CW2205P025A／	AD	DJ	N	C	Spacer	ｱｯｾﾂｽﾍﾟｰｻｰ
18	0CW2268P059／／	AE	DJ	N	C	Fixing holder	ｵｻｴﾎﾙﾀﾞｰ
19	0CW2205P351A／	AU	EZ	N	C	Belt roller	ﾍﾞﾙﾄｵｻｴﾛｰﾗｰ
20	0CW2269P123／／	AH	DX	N	C	Belt tension bracket F	ﾍﾞﾙﾄﾃﾝｼｮﾝﾌﾞﾗｹｯﾄ F
21	0CW2078P023B／	AC	DJ		C	Screw(M3)	ﾋﾞｽ
22	0CW040060FNBi	AA	DD		C	Screw(M4×6)	ﾋﾞｽ
23	0CW2269P026／／	AF	DS	N	C	Roller holder 1-F	ｵｻｴﾛｰﾗｰﾎﾙﾀﾞｰ1-F
24	0CW2269P022／／	AF	DS	N	C	Roller holder 1-R	ｵｻｴﾛｰﾗｰﾎﾙﾀﾞｰ1-R
25	0CW2268P110／／	AH	DX	N	C	Transport tension bracket	搬送ﾃﾝｼｮﾝﾌﾞﾗｹｯﾄ
26	0CW2269P382／／	AD	DJ	N	C	DF unit regulation cushion	DF ﾕﾆｯﾄ上下規制ﾊﾟｯﾄ
27	0CW2269P326／／	AZ	FQ	N	C	Belt roller R	ﾍﾞﾙﾄﾛｰﾗｰ右
28	0CW2214P520B／	AU	EZ	N	C	Fixing holder	ｵｻｴﾎﾙﾀﾞｰ
29	0CW2078P086B／	AB	DD		C	Screw(M3)	ﾋﾞｽ
30	0CW030060FZWS	AA	DD		C	Screw	ﾋﾞｽ
31	0CW2268P146／／	AP	EQ	N	C	Transport unit stay	搬送ﾕﾆｯﾄｽﾃｰ
33	0CW2269P176／／	AE	DS	N	C	Collar plate spring	ｺﾛｲﾀﾊﾞﾈ
35	0CW2198P305B／	AH	DX	N	C	Collar H	ｵｻｴｺﾛ H
36	0CW2214P157B／	AK	DX	N	C	Collar plate spring L	ｵｻｴｺﾛｲﾀﾊﾞﾈ L
37	0CW2214P575A／	BR	LP	N	A	DF belt CGR	DF ﾍﾞﾙﾄ CGR
38	0CW030080FZWS	AA	DD		C	Screw	ﾋﾞｽ

㊺ RADF 搬送部 (RADF Transport section)[AR-C260F/AR-C260FP]



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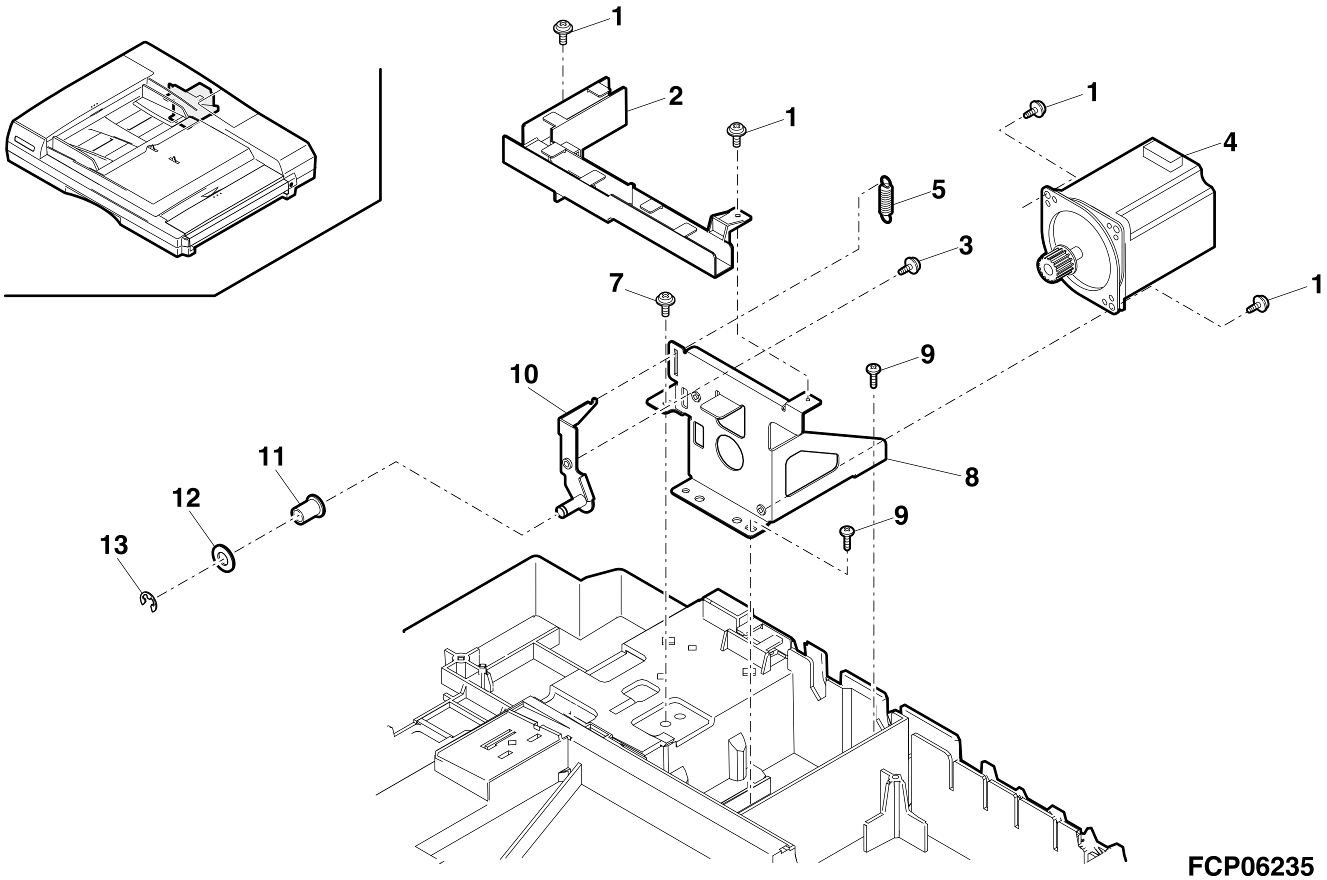
46 RADF 搬送駆動部 (RADF Transport drive section)[AR-C260F/AR-C260FP]

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION	
		Ex.	Ja.				
1	０ＣＷ０４００８０ＦＺＷＳ	AA	DD		C	Screw	ﾋﾞｽ
2	０ＣＷ２２６８Ｐ４０２／／	AK	DX	N	C	Harness guide 2	ﾊｰﾈｽｶﾞｲﾄﾞ 2
3	０ＣＷ０４００８０ＦＺＳＷ	AA	DD		C	Screw	ﾋﾞｽ
4	０ＣＷ２２６９Ｋ２４２Ｂ／	BM	HV	N	B	Motor	ﾓｰﾀｰ
5	０ＣＷ２２６９Ｐ３６３／／	AD	DJ	N	C	Transport tension spring	搬送ﾃﾝｼｮﾝﾊﾞﾈ
7	０ＣＷ０４００６０ＦＺＴＰ	AA	DD		C	Screw(M4×6)	ﾋﾞｽ
8	０ＣＷ２２６９Ｐ１１４／／	AQ	EQ	N	C	Transport motor bracket	搬送ﾓｰﾀｰﾌﾞﾗｹｯﾄ
9	０ＣＷ４０５４Ｐ２２０Ｄ／	AB	DJ		C	Screw	ﾋﾞｽ
10	０ＣＷ２２６９Ｋ０１２／／	AG	DX	N	C	Transport tension bracket unit	搬送ﾃﾝｼｮﾝﾌﾞﾗｹｯﾄﾕﾆｯﾄ
11	０ＣＷ２２６８Ｐ０６９／／	AD	DJ	N	C	Tension collar	ﾃﾝｼｮﾝｺﾛ
12	０ＣＷ２２６８Ｐ０７６／／	AD	DJ	N	C	Flange	ﾌﾗﾝｼﾞ
13	０ＣＷＥＲ０５０ＳＫＰ／／	AA	DD	N	C	E-ring 5	E ﾘﾝｸﾞ 5

46 RADF 搬送駆動部 (RADF Transport drive section)[AR-C260F/AR-C260FP]

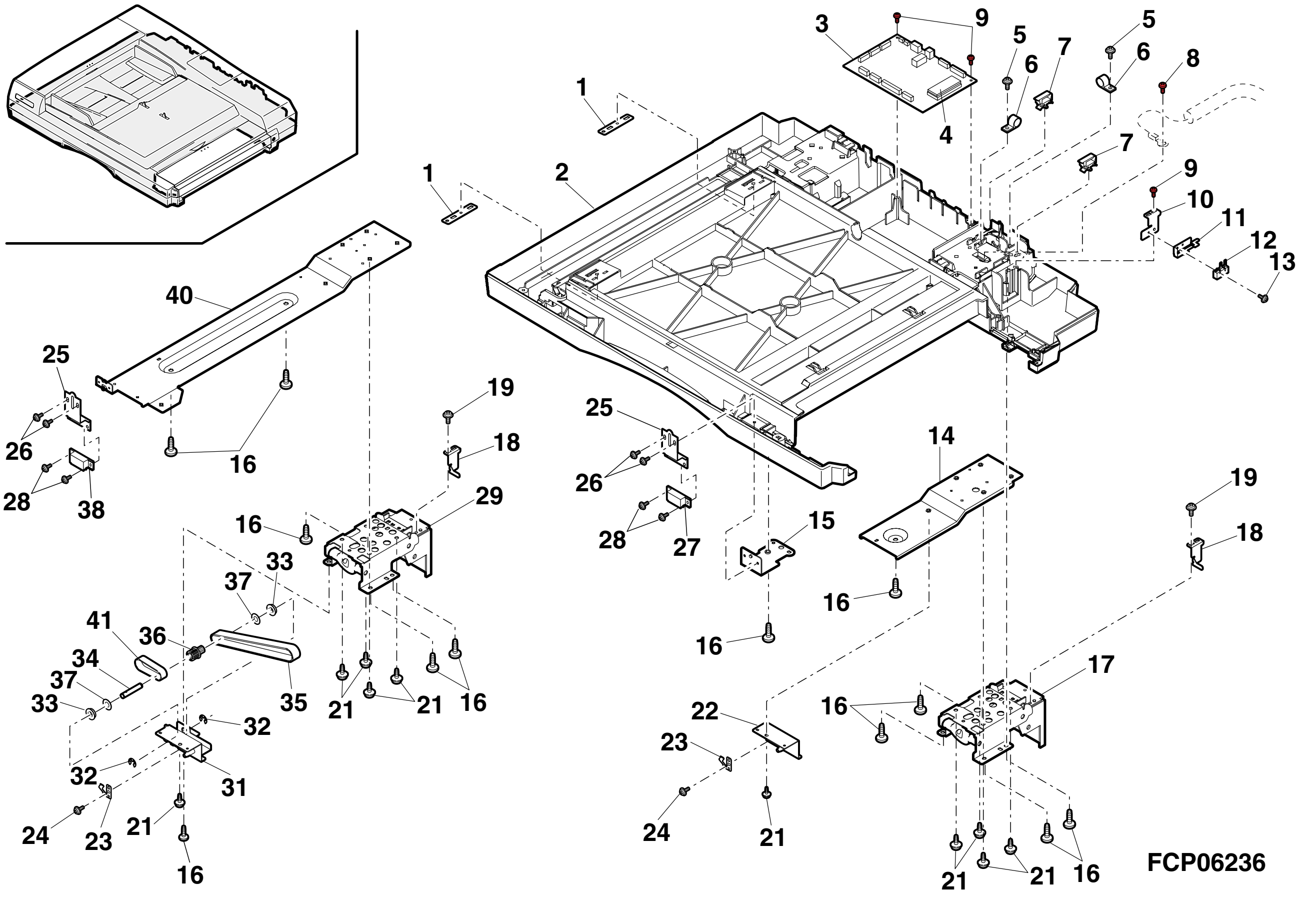


FCP06235

㊼ RADF 台板ﾕﾆｯﾄ (RADF Base plate unit)[AR-C260F/AR-C260FP]

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION	
		Ex.	Ja.				
1	0CW2214P116B／	AE	DJ	N	C	DF fixing plate	DF ｺﾃｲﾌﾟﾚｰﾄ
2	0CW2269P001／／	BP	LP	N	D	Base	ﾍﾞｰｽ
3	0CW2269K202／／	BZ	TF	N	E	Main PWB	ﾒｲﾝｷﾊﾞﾝ
4	0CW2269K240／／	AX	FG	N	B	ROM (IC)	ROM (IC)
5	0CW040120FZiT	AB	DJ	N	C	Screw(M4×12)	ﾋﾞｽ
6	0CWE450000070	AB	DJ		C	Clamp	ｸﾗﾝﾌﾟ
7	0CWE450001139	AC	DJ	N	C	Clamp	ｸﾗﾝﾌﾟ
8	0CW2164P340A1	AB	DJ	N	C	Screw(M4×7)	ﾋﾞｽ
9	0CW2185P357A／	AA	DJ		C	Screw(M3×8)	ﾋﾞｽ
10	0CW2269P159／／	AF	DS	N	C	Switch bracket	ｵｰﾌﾟﾝｽｲｯﾁﾌﾞﾗｹｯﾄ
11	0CW2269P172／／	AK	DX	N	C	Switch plate spring 2	ｽｲｯﾁｲﾀﾊﾞﾈ 2
12	0CWE120001648	AP	EQ	N	B	Microswitch	ﾏｲｸﾛｽｲｯﾁ
13	0CW023100FZWS	AB	DJ	N	C	Screw(M2.3×10)	ﾋﾞｽ
14	0CW2269P146／／	AN	EG	N	C	Base stay R	ﾍﾞｰｽｽﾃｰ R
15	0CW2269P108／／	AH	DX	N	C	Base F bracket	ﾍﾞｰｽ F ﾌﾞﾗｹｯﾄ
16	0CW4054P143B1	AB	DJ	N	C	Screw(M4×12)	ﾋﾞｽ
17	0CW2269K026G／	BD	GN	N	C	Hinge R unit	ﾋﾝｼﾞ R ﾕﾆｯﾄ
18	0CW2269P147／／	AF	DS	N	C	Switch lever	ｵｰﾌﾟﾝｽｲｯﾁﾚﾊﾞｰ
19	0CW030060FZWS	AA	DD		C	Screw	ﾋﾞｽ
21	0CW040060FZTP	AA	DD		C	Screw(M4×6)	ﾋﾞｽ
22	0CW2269K001／／	AH	DX	N	C	Transport unit fulcrum bracket R	搬送ﾕﾆｯﾄｼｼﾞﾌﾞﾗｹｯﾄ R
23	0CW2268P145／／	AG	DS	N	C	Transport unit earth spring	搬送ﾕﾆｯﾄｱｰｽｲﾀﾊﾞﾈ
24	0CW030060FZTP	AA	DD		C	Screw(M3×6)	ﾋﾞｽ
25	0CW2269P116／／	AH	DX	N	C	Magnet bracket	ﾏｸﾞﾈｯﾄﾌﾞﾗｹｯﾄ
26	0CW030040FZWS	AA	DD		C	Screw(M3×4)	ﾋﾞｽ
27	0CW2214P393A／	AG	DX	N	C	Magnet catch(13N)	ﾏｸﾞﾈｯﾄｷｬｯﾁ
28	0CW030060FZSW	AA	DD		C	Screw	ﾋﾞｽ
29	0CW2269K025F／	BD	GJ	N	C	Hinge L unit	ﾋﾝｼﾞ L ﾕﾆｯﾄ
31	0CW2269K008／／	AK	EB	N	C	Transport unit fulcrum bracket L	搬送ﾕﾆｯﾄｼｼﾞﾌﾞﾗｹｯﾄ L
32	0CWER050SKP／／	AA	DD	N	C	E-ring 5	E ﾘﾝｸﾞ 5
33	0CWNSBRG00016	AT	EZ		C	Braring(ϕ6)	ﾍﾞｱﾘﾝｸﾞ
34	0CW2269P221／／	AH	DX	N	C	Transport drive shaft	搬送駆動ｼｬﾌﾄ
35	0CWNSBLT00282	AR	EQ	N	C	Belt	ﾍﾞﾙﾄ
36	0CW2269P020／／	AD	DJ	N	C	Belt drive pulley	ﾍﾞﾙﾄ駆動ｱｲﾄﾞﾗﾌﾟｰﾘｰ
37	0CW2268P076／／	AD	DJ	N	C	Flange	ﾌﾗﾝｼﾞ
38	0CW2269P393A1	AG	DX	N	C	Magnet catch(13N)	ﾏｸﾞﾈｯﾄｷｬｯﾁ
40	0CW2269P145／／	AW	FG	N	C	Base stay L	ﾍﾞｰｽｽﾃｰ L
41	0CWNSBLT00281	AQ	EQ	N	C	Timing belt	ﾀｲﾐﾝｸﾞﾍﾞﾙﾄ

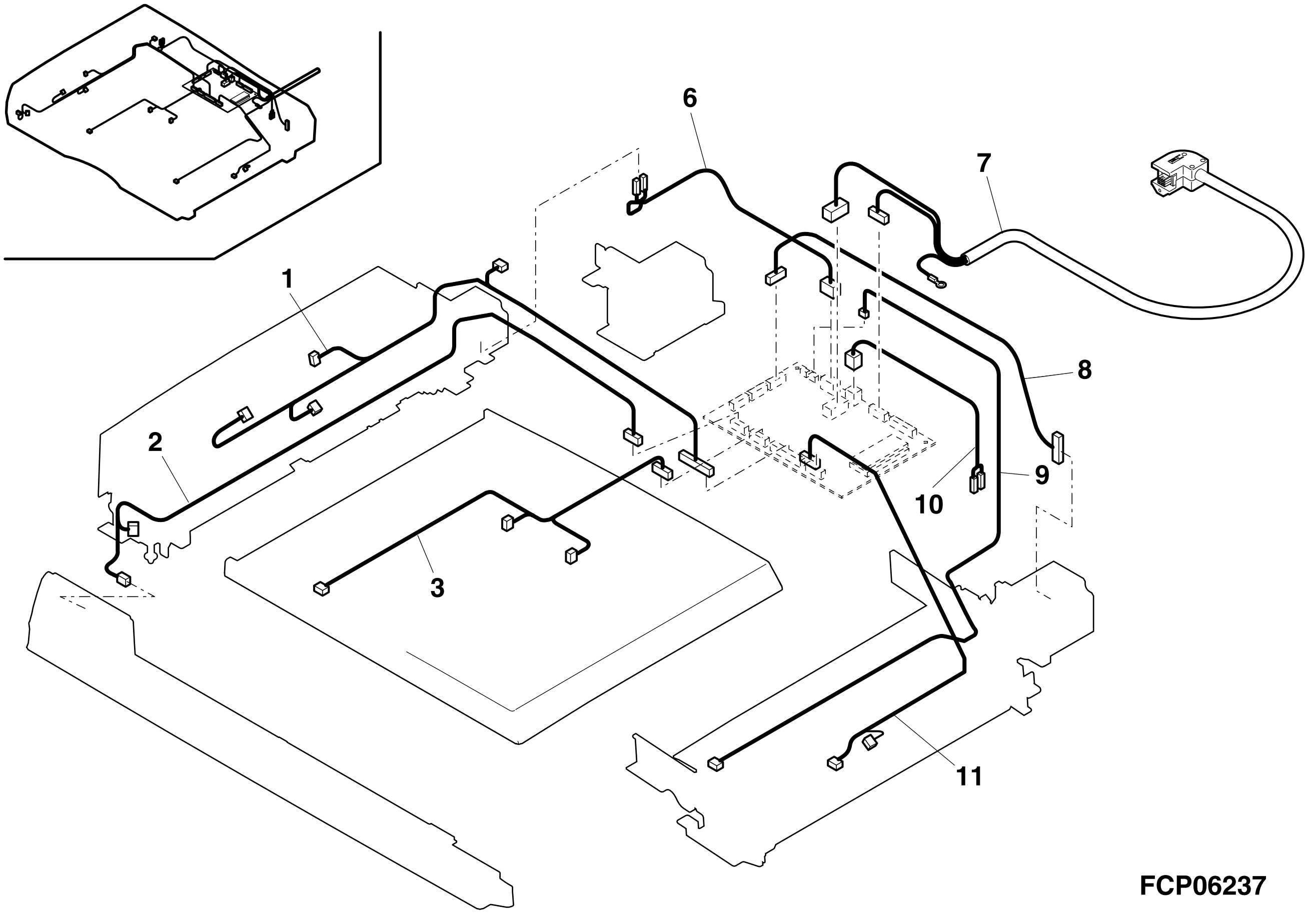
㊼ RADF 台板ﾕﾆｯﾄ (RADF Base plate unit)[AR-C260F/AR-C260FP]



㊽ RADF 配線部 (RADF Wiring section)[AR-C260F/AR-C260FP]

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION	
		Ex.	Ja.				
1	０ＣＷ２２６９Ｋ２２５Ｂ／	AP	EQ	N	C	Harness	ﾊｰﾈｽ
2	０ＣＷ２２６９Ｋ２２３Ｂ／	AL	EB	N	C	Harness	ﾊｰﾈｽ
3	０ＣＷ２２６９Ｋ２２１／／	AM	EG	N	C	Harness	ﾊｰﾈｽ
6	０ＣＷ２２６９Ｋ２３０／／	AK	EB	N	C	Harness	ﾊｰﾈｽ
7	０ＣＷ２２６９Ｋ２３４Ｂ／	AY	FQ	N	C	Harness	ﾊｰﾈｽ
8	０ＣＷ２２６９Ｋ２４３／／	BL	HL	N	C	Harness	ﾊｰﾈｽ
9	０ＣＷ２２６９Ｋ２２２Ｂ／	AG	DX	N	C	Harness	ﾊｰﾈｽ
10	０ＣＷ２２６９Ｋ２３１／／	AK	DX	N	C	Harness	ﾊｰﾈｽ
11	０ＣＷ２２６９Ｋ２２４／／	AL	EB	N	C	Harness	ﾊｰﾈｽ

㊽ RADF 配線部 (RADF Wiring section)[AR-C260F/AR-C260FP]



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㊾ ﾓﾃﾞﾑｺﾝﾄﾛｰﾙ基板 (Modem control PWB)[AR-C260F/C260FP]

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION
		Ex.	Ja.			
1	QCNCM1069ACZZ	AD	DD		C	Connector(6pin) [CN108] ｺﾈｸﾀｰ
2	QCNCM7014SC0B	AD	DJ		C	Connector(2pin) [CN104] ｺﾈｸﾀｰ
3	QCNCM7014SC0C	AA	DD		C	Connector(3pin) [CN105] ｺﾈｸﾀｰ
4	QCNCW1155FCZZ	AE	DJ		C	Connector(30pin) [CN107] ｺﾈｸﾀｰ
5	QSŌCN0082FCZZ	AP	EQ		C	Connector(26pin) [CN101] ｺﾈｸﾀｰ
6	QSŌCZ0073FCZZ	AL	EB		C	Connector(72pin) [CN106] ｺﾈｸﾀｰ
7	RC-KZ0008QCZZ	AB	DD		C	Capacitor(50WV 0.1µF) [C117,118,119,120,122,123] ｺﾝﾃﾞﾝｻｰ
	RC-KZ0008QCZZ	AB	DD		C	Capacitor(50WV 0.1µF) [C124,125,149,151,153,155] ｺﾝﾃﾞﾝｻｰ
	RC-KZ0008QCZZ	AB	DD		C	Capacitor(50WV 0.1µF) [C156,165,175,180,231,250] ｺﾝﾃﾞﾝｻｰ
	RC-KZ0008QCZZ	AB	DD		C	Capacitor(50WV 0.1µF) [C267,282] ｺﾝﾃﾞﾝｻｰ
8	RCRSP0068FCZZ	AG	DS		B	Crystal(12.500MHZ) [X101] ｸﾘｽﾀﾙ
9	RCRSP0069FCZZ	AG	DS		B	Crystal(14.7456MHZ) [X103] ｸﾘｽﾀﾙ
10	RCRUA0010FCZZ	AQ	EQ		B	Crystal(24.576MHZ) [X104] ｸﾘｽﾀﾙ
12	RFiLN0047FCZZ	AC	DJ		C	EMI filter(MMZ1608S121) [NF101,102] EMI ﾌｧﾙﾀｰ
13	RFiLZ1042LCZZ	AC	DJ		C	Filter(ZJSR5101102) [NF103] ﾌｨﾙﾀｰ
14	VCCCCZ1EH221J	AB	DD		C	Capacitor(25WV 220pF) [C177] ｺﾝﾃﾞﾝｻｰ
15	VCCCCZ1HH100D	AA	DD		C	Capacitor(50WV 10pF) [C141,143,197,233] ｺﾝﾃﾞﾝｻｰ
16	VCCCCZ1HH150J	AA	DD		C	Capacitor(50WV 15pF) [C292] ｺﾝﾃﾞﾝｻｰ
17	VCEAPS1CC106M	AC	DD		C	Capacitor(16WV 10µF) [C130,131,224,257] ｺﾝﾃﾞﾝｻｰ
18	VCEAPS1HC475M	AC	DJ		C	Capacitor(50WV 4.7µF) [C161,181,182] ｺﾝﾃﾞﾝｻｰ
19	VCEAPZ1EW107M	AD	DJ		C	Capacitor(25WV 100µF) [C249,268,273,281] ｺﾝﾃﾞﾝｻｰ
20	VCEAPZ1EW476M	AE	DJ		C	Capacitor(25WV 47µF) [C176,192,232,245,246] ｺﾝﾃﾞﾝｻｰ
	VCEAPZ1EW476M	AE	DJ		C	Capacitor(25WV 47µF) [C248,287,288] ｺﾝﾃﾞﾝｻｰ
21	VCFYDA1HA104J	AC	DD		C	Capacitor(50WV 0.1µF) [C179,185,186] ｺﾝﾃﾞﾝｻｰ
22	VCFYDA1HA105J	AE	DJ		C	Capacitor(50WV 1µF) [C178,190] ｺﾝﾃﾞﾝｻｰ
23	VCFYDA1HA333J	AC	DD		C	Capacitor(50WV 0.033µF) [C184] ｺﾝﾃﾞﾝｻｰ
24	VCFYDA1HA474J	AD	DJ		C	Capacitor(50WV 0.47µF) [C157] ｺﾝﾃﾞﾝｻｰ
25	VCKYCZ1AF224Z	AC	DD		C	Capacitor(10WV 0.22µF) [C216~221,251,252,253] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1AF224Z	AC	DD		C	Capacitor(10WV 0.22µF) [C269,271,275~279] ｺﾝﾃﾞﾝｻｰ
26	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.10µF) [C101,102,105,106,107] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.10µF) [C121,132,133,134,135,136] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.10µF) [C139,140,142,144] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.10µF) [C145,146,147] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.10µF) [C148,163,166,168~174] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.10µF) [C189,191,198~208] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.10µF) [C222,223] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.10µF) [C229,230,234~237,239,247] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.10µF) [C254,255,256,264~266,270] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.10µF) [C272,274,280,285,286,289] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.10µF) [C290,291,293,294] ｺﾝﾃﾞﾝｻｰ
27	VCKYCZ1EB472K	AA	DD		C	Capacitor(25WV 4700pF) [C154,187,104] ｺﾝﾃﾞﾝｻｰ
28	VCKYCZ1HB102K	AA	DD		C	Capacitor(50WV 1000pF) [C152,162,188,193,194,196] ｺﾝﾃﾞﾝｻｰ
29	VCKYCZ1HB471K	AA	DD		C	Capacitor(50WV 470pF) [C137,138] ｺﾝﾃﾞﾝｻｰ
31	VHDRB751V40-1	AD	DJ		B	Diode(RB751V40) [D103,105] ﾀﾞｲｵｰﾄﾞ
32	VHD1SS133//-1	AA	DD		B	Diode(1SS133) [D104] ﾀﾞｲｵｰﾄﾞ
33	VHERD5.1EB2-1	AA	DD		B	Zener diode(RD5.1EB2) [ZD101] ﾂｪﾅｰﾀﾞｲｵｰﾄﾞ
34	VHiEES02L400P	AG	DX		B	IC(EES02L400P) [IC110] IC
35	RH-iX0002FCZZ	AQ	EQ		B	IC(74LCX16652M) [IC123] IC
36	VHiLCX244SJ-1	AG	DX		B	IC(LCX244SJ) [IC124,128,129] IC
37	VHiLM111718-1	AH	DX		B	IC(LM111718) [U101] IC
38	VHiMAX3225E-1	AT	EZ		B	IC(MAX3225E) [IC108,109] IC
39	VHi29F04-01FC	AX	FG		B	Modem flash unit(29F04) [IC132] ﾓﾃﾞﾑﾌﾗｯｼｭﾕﾆｯﾄ
40	VHiMN195004-1	BN	HZ		B	IC(MN195004) [IC131] IC
42	VHiNJM2113M-1	AG	DS		B	IC(NJM2113M) [IC114] IC
43	VHiNJM4558MF1	AE	DJ		B	IC(NJM4558MF1) [IC112,113,115] IC
44	VHiNJU4051M-1	AG	DX		B	IC(NJU4051M) [IC502] IC
45	VHiNJU4052BMF	AG	DS		B	IC(NJU4052BMF) [IC503,504] IC
46	VHiNJU4053BMF	AG	DS		B	IC(NJU4053BMF) [IC501] IC
47	VHiPST591CMT1	AE	DS		B	IC(PST591CMT1) [IC107] IC
48	VHiPST591iM-1	AG	DS		B	IC(PST591IM) [IC106] IC
49	VHiPST994C+-1	AG	DS		B	IC(PST994C) [IC120] IC
50	VHiSD4M16L1-1	AZ	FX		B	IC(SD4M16L1) [IC119] IC
51	VHiSH770910-1	BH	GX		B	IC(SH770910) [IC111] IC
52	VHiSR1024L15J	AU	FG		B	IC(SR1024L15J) [IC121,122] IC
53	RH-iX0004FCZZ	AS	EQ		B	IC(61C1024-15J) [IC130] IC
54	VHiTD62503F/-	AG	DX		B	IC(TD62503F) [IC101] IC
55	VHiTR88017S-1	BA	FX		B	IC(TR88017S) [IC126] IC
56	VHiUPD65946-1	BB	GD		B	IC(UPD65946) [IC127] IC
57	VHi74HC132M-1	AF	DS		B	IC(74HC132M) [IC118,133] IC
58	VHi74HC74AM-1	AE	DJ		B	IC(74HC74AM) [IC117] IC
59	VHi74LCX04M-1	AE	DJ		B	IC(74LCX04M) [IC103,116] IC
60	VHi74LVX08M-1	AE	DJ		B	IC(74LVX08M) [IC105] IC
61	VHi74LVX14M-1	AE	DJ		B	IC(74LVX14M) [IC102] IC
62	VHP1LHEE-002A	AC	DJ		B	LED (Red)(1LHEE) [LED104,105] LED 赤
63	VRD-HT2EY751J	AA	DD		C	Resistor(1/4W 750Ω ±5%) [R160,231,232] 抵抗
64	VRD-HT2HY471J	AA	DD		C	Resistor(1/2W 470Ω ±5%) [R233] 抵抗
65	VRS-CZ1JD000J	AA	DD		C	Resistor(1/16W 0Ω ±5%) [R101,120~126,128,129,130] 抵抗
	VRS-CZ1JD000J	AA	DD		C	Resistor(1/16W 0Ω ±5%) [R131,201,225,226,255] 抵抗
	VRS-CZ1JD000J	AA	DD		C	Resistor(1/16W 0Ω ±5%) [R268~282,328~333,376] 抵抗
67	VRS-CZ1JD101J	AA	DD		C	Resistor(1/16W 100Ω ±5%) [R285~298,315~327] 抵抗

49 ﾓﾃﾞﾑｺﾝﾄﾛｰﾙ基板 (Modem control PWB)[AR-C260F/C260FP]

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION
		Ex.	Ja.			
67	VRS-CZ1JD101J	AA	DD		C	Resistor(1/16W 100Ω ±5%) [R344~359] 抵抗
68	VRS-CZ1JD102J	AA	DD		C	Resistor(1/16W 1.0KΩ ±5%) [R342] 抵抗
69	VRS-CZ1JD103F	AA	DD		C	Resistor(1/16W 10KΩ ±1%) [R170,210,213,227] 抵抗
70	VRS-CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) [R106,117,132,176,177,178] 抵抗
	VRS-CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) [R179,180,183,192,193,197] 抵抗
	VRS-CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) [R198,199,229,237~252] 抵抗
	VRS-CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) [R264,265,266,283] 抵抗
	VRS-CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) [R284,310,311] 抵抗
	VRS-CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) [R312,313,314,334,335,336] 抵抗
	VRS-CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) [R337,338,343,367] 抵抗
71	VRS-CZ1JD104J	AA	DD		C	Resistor(1/16W 100KΩ ±5%) [R187,191] 抵抗
72	VRS-CZ1JD123J	AA	DD		C	Resistor(1/16W 12KΩ ±5%) [R174] 抵抗
73	VRS-CZ1JD133F	AA	DD		C	Resistor(1/16W 13KΩ ±1%) [R184,185] 抵抗
74	VRS-CZ1JD152J	AA	DD		C	Resistor(1/16W 1.5KΩ ±5%) [R234] 抵抗
75	VRS-CZ1JD153F	AB	DD		C	Resistor(1/16W 15KΩ ±1%) [R166,167,168,169] 抵抗
76	VRS-CZ1JD183J	AA	DD		C	Resistor(1/16W 18KΩ ±5%) [R215,228] 抵抗
77	VRS-CZ1JD203J	AA	DD		C	Resistor(1/16W 20KΩ ±5%) [R186] 抵抗
78	VRS-CZ1JD222J	AA	DD		C	Resistor(1/16W 2.2KΩ ±5%) [R230] 抵抗
79	VRS-CZ1JD273F	AA	DD		C	Resistor(1/16W 27KΩ ±1%) [R214] 抵抗
80	VRS-CZ1JD273J	AA	DD		C	Resistor(1/16W 27KΩ ±5%) [R195,366,378,204] 抵抗
81	VRS-CZ1JD302J	AA	DD		C	Resistor(1/16W 3KΩ ±5%) [R173] 抵抗
82	VRS-CZ1JD330J	AA	DD		C	Resistor(1/16W 33Ω ±5%) [R104,134,267,300~309] 抵抗
	VRS-CZ1JD330J	AA	DD		C	Resistor(1/16W 33Ω ±5%) [R361,368~371,373~375] 抵抗
83	VRS-CZ1JD333J	AA	DD		C	Resistor(1/16W 33KΩ ±5%) [R211,212,224] 抵抗
84	VRS-CZ1JD363J	AA	DD		C	Resistor(1/16W 36KΩ ±5%) [R189] 抵抗
85	VRS-CZ1JD393F	AA	DD		C	Resistor(1/16W 39KΩ ±1%) [R171] 抵抗
86	VRS-CZ1JD393J	AA	DD		C	Resistor(1/16W 39KΩ ±5%) [R216] 抵抗
87	VRS-CZ1JD471J	AA	DD		C	Resistor(1/16W 470Ω ±5%) [R116,340] 抵抗
88	VRS-CZ1JD472J	AA	DD		C	Resistor(1/16W 4.7KΩ ±5%) [R103,105,114,133] 抵抗
	VRS-CZ1JD472J	AA	DD		C	Resistor(1/16W 4.7KΩ ±5%) [R135,139~142] 抵抗
	VRS-CZ1JD472J	AA	DD		C	Resistor(1/16W 4.7KΩ ±5%) [R144,145,148] 抵抗
	VRS-CZ1JD472J	AA	DD		C	Resistor(1/16W 4.7KΩ ±5%) [R161,163,164,165,202] 抵抗
	VRS-CZ1JD472J	AA	DD		C	Resistor(1/16W 4.7KΩ ±5%) [R205,206,207] 抵抗
	VRS-CZ1JD472J	AA	DD		C	Resistor(1/16W 4.7KΩ ±5%) [R208,209,260] 抵抗
	VRS-CZ1JD472J	AA	DD		C	Resistor(1/16W 4.7KΩ ±5%) [R261,262,263,299,360] 抵抗
89	VRS-CZ1JD473J	AA	DD		C	Resistor(1/16W 47KΩ ±5%) [R235] 抵抗
90	VRS-CZ1JD513J	AA	DD		C	Resistor(1/16W 51KΩ ±5%) [R182] 抵抗
91	VRS-CZ1JD560J	AA	DD		C	Resistor(1/16W 56Ω ±5%) [R143,236] 抵抗
92	VRS-CZ1JD682J	AA	DD		C	Resistor(1/16W 6.8KΩ ±5%) [R172,190] 抵抗
93	VRS-CZ1JD683J	AA	DD		C	Resistor(1/16W 68KΩ ±5%) [R188] 抵抗
94	VRS-CZ1JD753J	AA	DD		C	Resistor(1/16W 75KΩ ±5%) [R200] 抵抗
95	VRS-CZ1JD912J	AA	DD		C	Resistor(1/16W 9.1KΩ ±5%) [R217] 抵抗
96	VRS-CZ1JD913J	AA	DD		C	Resistor(1/16W 91KΩ ±5%) [R220] 抵抗
97	VSDTA114EUA-1	AC	DJ		B	Transistor(DTA114EUA) [TR118] ﾄﾗﾝｼﾞｽﾀｰ
98	VSDTC114EUA-1	AC	DJ		B	Transistor(DTC114EUA) [TR101,111,117] ﾄﾗﾝｼﾞｽﾀｰ
99	VSDTC363EU+-1	AC	DJ		B	Transistor(DTC363EU) [TR102,103,104,105,109,110] ﾄﾗﾝｼﾞｽﾀｰ
	VSDTC363EU+-1	AC	DJ		B	Transistor(DTC363EU) [TR112,113,114,115,116] ﾄﾗﾝｼﾞｽﾀｰ
	VSDTC363EU+-1	AC	DJ		B	Transistor(DTC363EU) [TR120,121,122,123,124] ﾄﾗﾝｼﾞｽﾀｰ
100	VS2SD592A//-1	AE	DJ		B	Transistor(2SD592A) [TR119] ﾄﾗﾝｼﾞｽﾀｰ
101	PCAPH0010GCZZ	AD	DJ		C	Cap(JM-2W-96) [JP104] ｷｬｯﾌﾟ
102	QPiN-0003GCZZ	AC	DJ		C	Pin(T3B-SQ) [JP104] ﾋﾟﾝ
103	VCKYCZ1CB103K	AA	DD		C	Capacitor(16WV 0.010µF) [C295] ｺﾝﾃﾞﾝｻｰ
	(Unit)					
901	CPWBN1472FCE4	CG	UM	N	E	Modem control PWB unit ﾓﾃﾞﾑｺﾝﾄﾛｰﾙ基板ﾕﾆｯﾄ

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NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION
		Ex.	Ja.			
1	QCNCW1155FCZZ	AE	DJ		C	Connector(30pin) [CN2] ｺﾈｸﾀｰ
2	QJAKT0001FCZZ	AD	DJ		C	Moduler connector(2pin) [MJ1] ﾓｼﾞｭﾗｰｺﾈｸﾀｰ
3	QJAKT0002FCZZ	AE	DJ		C	Moduler connector(6pin) [MJ2] ﾓｼﾞｭﾗｰｺﾈｸﾀｰ
4	RC-KZ0008QCZZ	AB	DD		C	Capacitor(50WV 0.1µF) [C5,33,34,43,45,53] ｺﾝﾃﾞﾝｻｰ
	RC-KZ0008QCZZ	AB	DD		C	Capacitor(50WV 0.1µF) [C17,27,35,47] ｺﾝﾃﾞﾝｻｰ
6	RCiLZ0089FCZZ	AG	DX		C	Coil(ST110AV) [L8] ｺｲﾙ
7	RFiLN0047FCZZ	AC	DJ		C	EMI filter(MMZ1608S121) [NF1] EMI ﾌｧﾙﾀｰ
8	RFiLN2011SCZZ	AC	DJ		C	Coil(SBT-0260) [L1,2,6,7] ｺｲﾙ
	RFiLN2011SCZZ	AC	DJ		C	Coil(SBT-0260) [L3,4,5] ｺｲﾙ
9	RR-WZ0418FCZZ	AF	DS		B	Relay(HPC1/2W) [R30] ﾘﾚｰ
10	RRLYD1211QCZZ	AH	DX		B	Relay(OUAZSH112LZ) [RY2] ﾘﾚｰ
	RRLYD1211QCZZ	AH	DX		B	Relay(OUAZSH112LZ) [RY1] ﾘﾚｰ
11	RRLYD1411QCZZ	AM	EG		B	Relay(RSH-12-U) [RY3,4] ﾘﾚｰ
14	VCCCCZ1EH221J	AB	DD		C	Capacitor(25WV 220pF) [C50] ｺﾝﾃﾞﾝｻｰ
	VCCCCZ1EH221J	AB	DD		C	Capacitor(25WV 220pF) [C20,32] ｺﾝﾃﾞﾝｻｰ
15	VCCCCZ1HH101J	AA	DD		C	Capacitor(50WV 100pF) [C44] ｺﾝﾃﾞﾝｻｰ
16	VCEAZA1EW476M	AC	DD		C	Capacitor(25WV 47µF) [C14,51] ｺﾝﾃﾞﾝｻｰ
17	VCEAZA1HW105M	AB	DD		C	Capacitor(50WV 1.0µF) [C52] ｺﾝﾃﾞﾝｻｰ

50 TEL/LIU 基板ﾕﾆｯﾄ (TEL/LIU PWB)[AR-C260F/C260FP]

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION
		Ex.	Ja.			
17	VCEAZA1HW105M	AB	DD		C	Capacitor(50WV 1.0µF) [C36] ｺﾝﾃﾞﾝｻｰ
18	VCEAZA1HW226M	AC	DD		C	Capacitor(50WV 22µF) [C1] ｺﾝﾃﾞﾝｻｰ
19	VCEAZA1HW334M	AB	DD		C	Capacitor(50WV 0.33µF) [C10] ｺﾝﾃﾞﾝｻｰ
20	VCEAZA1HW475M	AB	DD		C	Capacitor(50WV 4.7µF) [C4,11,42,48,49] ｺﾝﾃﾞﾝｻｰ
21	VCE9EA1CW106M	AC	DD		C	Capacitor(16WV 10µF) [C30,31] ｺﾝﾃﾞﾝｻｰ
22	VCE9GA1CW476M	AD	DD		C	Capacitor(16WV 47µF) [C8] ｺﾝﾃﾞﾝｻｰ
23	VCFYJU2EA105K	AE	DS		C	Capacitor(250WV 1µF) [C6] ｺﾝﾃﾞﾝｻｰ
25	VCKYCZ1HB102K	AA	DD		C	Capacitor(50WV 1000pF) [C9] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1HB102K	AA	DD		C	Capacitor(50WV 1000pF) [C2,18,19,21,28] ｺﾝﾃﾞﾝｻｰ
26	VCKYCZ1HB471K	AA	DD		C	Capacitor(50WV 470pF) [C39] ｺﾝﾃﾞﾝｻｰ
27	VHD0R5G4B42－1	AF	DS		B	Diode(0R5G4B42) [REC1,2] ﾀﾞｲｵｰﾄﾞ
28	VHD1SS133／／－1	AA	DD		B	Diode(1SS133) [D7,8,9] ﾀﾞｲｵｰﾄﾞ
	VHD1SS133／／－1	AA	DD		B	Diode(1SS133) [D1,3,4,5,6,10] ﾀﾞｲｵｰﾄﾞ
29	VHD10DDA40＋－1	AB	DD		B	Diode(10DDA40) [D2] ﾀﾞｲｵｰﾄﾞ
30	VHEHZS2C1／／－1	AB	DJ		B	Zener diode(HZS2C1) [ZD2,3] ﾂｪﾅｰﾀﾞｲｵｰﾄﾞ
31	VHEMTZJ33B＋－1	AC	DJ		B	Zener diode(MTZJ33B) [ZD1,6] ﾂｪﾅｰﾀﾞｲｵｰﾄﾞ
32	VHEMTZJ4R7B－1	AC	DJ		B	Zener diode(MTZJ4R7B) [ZD4,5,8,9] ﾂｪﾅｰﾀﾞｲｵｰﾄﾞ
33	VHEMTZJ8．2B－1	AB	DJ		B	Zener diode(MTZJ8.2B) [ZD7] ﾂｪﾅｰﾀﾞｲｵｰﾄﾞ
34	VHiBU4066BCF1	AD	DJ		B	IC(BU4066BCF1) [IC103,104] IC
35	VHiNJM4558MF1	AE	DJ		B	IC(NJM4558MF1) [IC102,105,107,108] IC
36	VHiTA31076F－1	AH	DX		B	IC(TA31076F) [IC101] IC
37	VHPPC814X1＋－1	AD	DJ		B	Photo coupler(PC814X1) [PC3] ﾌｫﾄｶﾌﾟﾗｰ
38	VHPPC817D／／－1	AD	DJ		B	Photo coupler(PC817D) [PC1,4] ﾌｫﾄｶﾌﾟﾗｰ
39	VHPTLP624－1BV	AG	DX		B	Photo coupler(TLP624) [PC2] ﾌｫﾄｶﾌﾟﾗｰ
40	VHVDSS－401M／／	AH	DX		B	Arrestor(DSS) [SA2] ｱﾚｽﾀ
41	VHVTNR5V471K／	AD	DJ		B	Varistor(TNR5V471K) [SA1] ﾊﾞﾘｽﾀｰ
42	VHVTN07G101－1	AB	DJ		B	Varistor(TN07G101) [VA2] ﾊﾞﾘｽﾀｰ
43	VRD－HT2EY100J	AA	DD		C	Resistor(1/4W 10Ω ±5%) [R11,53] 抵抗
44	VRD－HT2EY104J	AA	DD		C	Resistor(1/4W 100KΩ ±5%) [R20] 抵抗
45	VRD－HT2EY124J	AA	DD		C	Resistor(1/4W 120KΩ ±5%) [R21] 抵抗
46	VRD－HT2EY164J	AA	DD		C	Resistor(1/4W 160KΩ ±5%) [R4] 抵抗
47	VRD－HT2EY183J	AA	DD		C	Resistor(1/4W 18KΩ ±5%) [R39] 抵抗
48	VRD－HT2EY204J	AA	DD		C	Resistor(1/4W 200KΩ ±5%) [R3] 抵抗
49	VRD－HT2EY224J	AA	DD		C	Resistor(1/4W 220KΩ ±5%) [R19] 抵抗
50	VRD－HT2EY300J	AA	DD		C	Resistor(1/4W 30Ω ±5%) [R18] 抵抗
52	VRD－HT2EY303J	AA	DD		C	Resistor(1/4W 30KΩ ±5%) [R38] 抵抗
53	VRD－HT2EY471J	AA	DD		C	Resistor(1/4W 470Ω ±5%) [R7] 抵抗
55	VRD－HT2EY682J	AA	DD		C	Resistor(1/4W 6.8KΩ ±5%) [R5] 抵抗
56	VRD－HT2EY910J	AA	DD		C	Resistor(1/4W 91Ω ±5%) [R10] 抵抗
57	VRS－CZ1JD000J	AA	DD		C	Resistor(1/16W 0Ω ±5%) [R1,2,6] 抵抗
58	VRS－CZ1JD102J	AA	DD		C	Resistor(1/16W 1.0KΩ ±5%) [R15,23,26,28,29] 抵抗
59	VRS－CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) [R14,25,56,75,76] 抵抗
60	VRS－CZ1JD113J	AA	DD		C	Resistor(1/16W 11KΩ ±5%) [R43,79,81] 抵抗
61	VRS－CZ1JD153J	AA	DD		C	Resistor(1/16W 15KΩ ±5%) [R74] 抵抗
62	VRS－CZ1JD183J	AA	DD		C	Resistor(1/16W 18KΩ ±5%) [R78] 抵抗
63	VRS－CZ1JD203J	AA	DD		C	Resistor(1/16W 20KΩ ±5%) [R41,54] 抵抗
64	VRS－CZ1JD223J	AA	DD		C	Resistor(1/16W 22KΩ ±5%) [R8,33,48,49,50] 抵抗
	VRS－CZ1JD223J	AA	DD		C	Resistor(1/16W 22KΩ ±5%) [R65,66,68,71] 抵抗
	VRS－CZ1JD223J	AA	DD		C	Resistor(1/16W 22KΩ ±5%) [R51,52,59,60] 抵抗
65	VRS－CZ1JD243J	AA	DD		C	Resistor(1/16W 24KΩ ±5%) [R55] 抵抗
	VRS－CZ1JD243J	AA	DD		C	Resistor(1/16W 24KΩ ±5%) [R82] 抵抗
66	VRS－CZ1JD272J	AA	DD		C	Resistor(1/16W 2.7KΩ ±5%) [R40] 抵抗
67	VRS－CZ1JD273J	AA	DD		C	Resistor(1/16W 27KΩ ±5%) [R58,77,84] 抵抗
68	VRS－CZ1JD332J	AA	DD		C	Resistor(1/16W 3.3KΩ ±5%) [R44] 抵抗
70	VRS－CZ1JD512J	AA	DD		C	Resistor(1/16W 5.1KΩ ±5%) [R73] 抵抗
71	VRS－CZ1JD513J	AA	DD		C	Resistor(1/16W 51KΩ ±5%) [R72] 抵抗
72	VRS－CZ1JD621J	AA	DD		C	Resistor(1/16W 681KΩ ±5%) [R67,69] 抵抗
74	VRS－RA3AA202J	AB	DD		C	Resistor(1W 2KΩ ±5%) [R13] 抵抗
75	VSDTC143ZKA－1	AC	DJ		B	Transistor(DTC143ZKA) [Q104,117,118,119,121,122] ﾄﾗﾝｼﾞｽﾀｰ
	VSDTC143ZKA－1	AC	DJ		B	Transistor(DTC143ZKA) [Q101,102,105,106,111,112] ﾄﾗﾝｼﾞｽﾀｰ
	VSDTC143ZKA－1	AC	DJ		B	Transistor(DTC143ZKA) [Q113,115,116,120,123] ﾄﾗﾝｼﾞｽﾀｰ
76	VS2SA1807－P－1	AE	DS		B	Transistor(2SA1807) [Q110] ﾄﾗﾝｼﾞｽﾀｰ
77	VS2SC2412KS－1	AB	DD		B	Transistor(2SC2412KS) [Q108,109] ﾄﾗﾝｼﾞｽﾀｰ
78	VS2SC3415－P－1	AP	EQ		B	Transistor(2SC3415) [Q1] ﾄﾗﾝｼﾞｽﾀｰ
79	VS2SD1266A0－1	AF	DS		B	Transistor(2SD1266A0) [Q2] ﾄﾗﾝｼﾞｽﾀｰ
80	VS2SD592A－S－1	AK	DX		B	Transistor(2SD592A) [Q3] ﾄﾗﾝｼﾞｽﾀｰ
81	QCNCM1156FCZZ	AD	DJ		C	Connector(3pin) [CN3] ｺﾈｸﾀｰ
82	QSŌCD0081FCZZ	AL	EB		C	Connector(6pin) [CN1] ｺﾈｸﾀｰ
83	RC－KZ0009QCZZ	AB	DD		C	Capacitor(50WV 0.01µF) [C24] ｺﾝﾃﾞﾝｻｰ
84	RRLYD3211QCZZ	AM	EG		B	Relay(G6E134PUS) [RY5] ﾘﾚｰ
85	RTRNP0534FCZZ	AT	EZ		B	Transformer(CIT1414EP-A) [T3] ﾄﾗﾝｽ
86	RTRNP2105SCZZ	AP	EQ		B	Transformer(2105) [T1] ﾄﾗﾝｽ
87	VCEAZA1HW225M	AB	DD		C	Capacitor(50WV 2.2µF) [C16,22,26,29] ｺﾝﾃﾞﾝｻｰ
88	VCFYDA1HA105J	AE	DJ		C	Capacitor(50WV 1µF) [C13] ｺﾝﾃﾞﾝｻｰ
89	VCFYJU2AA824K	AF	DS		C	Capacitor(100WV 0.82µF) [C23] ｺﾝﾃﾞﾝｻｰ
90	VCFYJU2GA473K	AC	DD		C	Capacitor(400WV 0.047µF) [C7] ｺﾝﾃﾞﾝｻｰ
91	VCKYCZ1AB333K	AB	DD		C	Capacitor(10WV 0.033µF) [C38,54] ｺﾝﾃﾞﾝｻｰ
92	VCKYCZ1HB222K	AA	DD		C	Capacitor(50WV 2200pF) [C3] ｺﾝﾃﾞﾝｻｰ
93	VCQYNU1HM223K	AA	DD		C	Capacitor(50WV 0.023µF) [C15] ｺﾝﾃﾞﾝｻｰ
95	VHiH8D3063＋－1	AW	FG		B	IC(H8D3063) [IC1] IC

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NO.	PARTS CODE	PRICE RANK Ex.	PRICE RANK Ja.	NEW MARK	PART RANK	DESCRIPTION
97	VHiTHS56F／／－1	AS	EZ		B	IC(THS56F) [IC2] IC
98	VRD-HT2EY472J	AA	DD		C	Resistor(1/4W 4.7KΩ ±5%) [R22] 抵抗
99	VRS-CZ1JD151J	AA	DD		C	Resistor(1/16W 150Ω ±1%) [R46] 抵抗
100	VRS-CZ1JD222J	AA	DD		C	Resistor(1/16W 2.2KΩ ±5%) [R45] 抵抗
101	VRS-CZ1JD331J	AA	DD		C	Resistor(1/16W 330Ω ±5%) [R16] 抵抗
102	VRS-CZ1JD363J	AA	DD		C	Resistor(1/16W 36KΩ ±5%) [R57] 抵抗
103	VRS-CZ1JD393J	AA	DD		C	Resistor(1/16W 39KΩ ±5%) [R31] 抵抗
104	VRS-CZ1JD472J	AA	DD		C	Resistor(1/16W 4.7KΩ ±5%) [R9] 抵抗
105	VRS-CZ1JD683J	AA	DD		C	Resistor(1/16W 68KΩ ±5%) [R27,42] 抵抗
106	VRS-CZ1JD821J	AA	DD		C	Resistor(1/16W 820Ω ±5%) [R64] 抵抗
107	VRS-CZ1JD822J	AA	DD		C	Resistor(1/16W 8.2KΩ ±5%) [R32] 抵抗
108	VRS-RA3AA472J	AB	DD		C	Resistor(1W 4.7KΩ ±5%) [R83] 抵抗
	(Unit)					
901	CPWBN1491FCE1	CA	TV		E	TEL/LIU PWB unit TEL/LIU 基板ﾕﾆｯﾄ

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NO.	PARTS CODE	PRICE RANK Ex.	PRICE RANK Ja.	NEW MARK	PART RANK	DESCRIPTION
1	QCNCM0879FCZZ	AF	DS		C	Connector(28Pin) [CN17] ｺﾈｸﾀｰ
2	QCNCM0923FC10	AE	DJ		C	Connector(10pin) [CN6,CN14] ｺﾈｸﾀｰ
3	QCNCM0923FC12	AE	DJ		C	Connector(12pin) [CN10] ｺﾈｸﾀｰ
4	QCNCM0923FC16	AF	DS		C	Connector(16pin) [CN19] ｺﾈｸﾀｰ
5	QCNCM0923FC22	AF	DS		C	Connector(22pin) [CN20] ｺﾈｸﾀｰ
6	QCNCM0923FC24	AF	DS		C	Connector(24pin) [CN9] ｺﾈｸﾀｰ
7	QCNCM0923FC32	AG	DS		C	Connector(32Pin) [CN7] ｺﾈｸﾀｰ
8	QCNCM0923FC3D	AF	DS		C	Connector(B34B-PHDSS)(34pin) [CN11,CN12] ｺﾈｸﾀｰ
9	QCNCM7014SC0C	AA	DD		C	Connector(3pin) [CN1,CN3,CN5,CN8] ｺﾈｸﾀｰ
10	QCNCM7014SC0F	AB	DD		C	Connector(6pin) [CN13,CN2] ｺﾈｸﾀｰ
11	QCNCW0885FCZZ	AG	DX		C	Connector(1-171825-2) [CN4] ｺﾈｸﾀｰ
13	QCNCW1170FCZZ	AG	DS		C	Connector(28FMZ-BT) [CN16] ｺﾈｸﾀｰ
14	QSŌCZ0073FCZZ	AL	EB		C	Connector(72pin) [SOCKET1] ｺﾈｸﾀｰ
15	QSŌCZ6428ACZZ	AE	DS		C	IC socket(28pin) [IC22] IC ｿｹｯﾄ
16	RCRSP0071FCZZ	AH	DX	N	B	Crystal(AT-51(20.00MHz)) [X1] ｸﾘｽﾀﾙ
17	RCRSZ0001QSZZ	AG	DS		B	Crystal(AT-51(19.6608MHz)) [X2] ｸﾘｽﾀﾙ
18	RFiLZ0004QSZZ	AM	EG		C	Filter(ZJSR5101-223) [NF5,NF4] ﾌｨﾙﾀ -
19	RFiLZ1043LCZZ	AC	DJ		C	Filter(33000pF) [NF1,NF2,NF3] ﾌｨﾙﾀｰ
20	RH-iX0003QSZZ	AQ	EQ		B	IC(SRAM)(IS61LV256-12J) [IC25,IC24] IC(SRAM)
21	RMPTW4101QCJJ	AB	DD		B	Block resistor(100Ω×4) [BR15,BR19] ﾌﾞﾛｯｸﾃｲｺｳ
22	RMPTW4102QCJJ	AB	DD		B	Block resistor(1.0KΩ×4) [BR26,BR29] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTW4102QCJJ	AB	DD		B	Block resistor(1.0KΩ×4) [BR31,BR34,BR35,BR36,BR38] ﾌﾞﾛｯｸﾃｲｺｳ
23	RMPTW4103QCJJ	AB	DD		B	Block resistor(10KΩ×4) [BR21,BR24,BR41,BR42,BR43] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTW4103QCJJ	AB	DD		B	Block resistor(10KΩ×4) [BR44,BR45,BR46,BR17] ﾌﾞﾛｯｸﾃｲｺｳ
24	RMPTW4330QCJJ	AB	DD		B	Resistor arrey(33Ω×4 1/32W ±5%) [BR8,BR9] ﾃｲｺｳｱﾚｲ
	RMPTW4330QCJJ	AB	DD		B	Resistor arrey(33Ω×4 1/32W ±5%) [BR10,BR11] ﾃｲｺｳｱﾚｲ
	RMPTW4330QCJJ	AB	DD		B	Resistor arrey(33Ω×4 1/32W ±5%) [BR12,BR16,BR20] ﾃｲｺｳｱﾚｲ
	RMPTW4330QCJJ	AB	DD		B	Resistor arrey(33Ω×4 1/32W ±5%) [BR23,BR47] ﾃｲｺｳｱﾚｲ
26	RMPTW4472QCJJ	AB	DD		B	Resistor arrey(4.7kΩ×4 ±5%) [BR1,BR4,BR5,BR6,BR13] ﾃｲｺｳｱﾚｲ
	RMPTW4472QCJJ	AB	DD		B	Resistor arrey(4.7kΩ×4 ±5%) [BR14,BR27,BR28] ﾃｲｺｳｱﾚｲ
	RMPTW4472QCJJ	AB	DD		B	Resistor arrey(4.7kΩ×4 ±5%) [BR32,BR33] ﾃｲｺｳｱﾚｲ
	RMPTW4472QCJJ	AB	DD		B	Resistor arrey(4.7kΩ×4 ±5%) [BR40] ﾃｲｺｳｱﾚｲ
27	RMPTW4473QCJJ	AB	DD		B	Resistor arrey(47kΩ×4 ±5%) [BR30,BR37,BR39] ﾃｲｺｳｱﾚｲ
29	VCCCCZ1HH180J	AA	DD		C	Capacitor(50WV 18pF)(GRM36CH180J50PT) [C82,C89] ｺﾝﾃﾞﾝｻｰ
30	VCCCCZ1HH220J	AA	DD		C	Capacitor(50WV 22pF) [C84,C83] ｺﾝﾃﾞﾝｻｰ
31	VCCUCY1AJ105Z	AC	DD		C	Capacitor(10WV 1.0µF) [C105] ｺﾝﾃﾞﾝｻｰ
32	VCEAGA0JW107M	AC	DD		C	Capacitor(6.3WV 100µF) [C110] ｺﾝﾃﾞﾝｻｰ
33	VCEAGA1AW108M	AC	ZT		C	Capacitor(10WV 1000µF) [C44] ｺﾝﾃﾞﾝｻｰ
34	VCEAGA1AW477M	AB	DD		C	Capacitor(10WV 470µF) [C55] ｺﾝﾃﾞﾝｻｰ
35	VCEAZU1VW106M	AB	DD		C	Capacitor(10µF/35V)(SMG35VB-10M) [C15,C35,C40] ｺﾝﾃﾞﾝｻｰ
	VCEAZU1VW106M	AB	DD		C	Capacitor(10µF/35V)(SMG35VB-10M) [CC48,C56] ｺﾝﾃﾞﾝｻｰ
	VCEAZU1VW106M	AB	DD		C	Capacitor(10µF/35V)(SMG35VB-10M) [C58,C68,C77] ｺﾝﾃﾞﾝｻｰ
36	VCEAZU0JW338M	AE	DJ		C	Capacitor(3300µF/6.3V)(UVR0J332MPA1TD) [C60] ｺﾝﾃﾞﾝｻｰ
37	VCEAZU1VW477M	AD	DJ		C	Capacitor(35WV 470µF) [C3] ｺﾝﾃﾞﾝｻｰ
38	VCKYCY1HB223K	AC	DD		C	Capacitor(50WV 0.022µF) [C2,C4,C5,C6,C7] ｺﾝﾃﾞﾝｻｰ
	VCKYCY1HB223K	AC	DD		C	Capacitor(50WV 0.022µF) [C13,C14,C88] ｺﾝﾃﾞﾝｻｰ
39	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C1,C8,C9,C11,C16] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C17,C20,C23,C30,C33] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C34,C36,C37,C38,C39] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C42,C43,C45,C46,C47] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C49,C50,C52,C53,C54] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C57,C59,C61,C62,C63] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C64,C65,C66,C70] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C81,C85,C86,C87,C90] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C91,C95,C96,C97,C101] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C104,C107,C109] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C111,C112,C113,C114,C115] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C116,C118,C123,C124,C125] ｺﾝﾃﾞﾝｻｰ

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NO.	PARTS CODE	PRICE RANK Ex.	PRICE RANK Ja.	NEW MARK	PART RANK	DESCRIPTION
39	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C126,C127,C139] ｺﾝﾃﾞﾝｻｰ
40	VCKYCZ1HB102K	AA	DD		C	Capacitor(50WV 1000pF) [C18,C19,C21,C22,C24] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1HB102K	AA	DD		C	Capacitor(50WV 1000pF) [C25,C26,C27,C28,C29] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1HB102K	AA	DD		C	Capacitor(50WV 1000pF) [C31,C32,C69,C71,C72] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1HB102K	AA	DD		C	Capacitor(50WV 1000pF) [C73,C74,C75,C76,C78] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1HB102K	AA	DD		C	Capacitor(50WV 1000pF) [C79] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1HB102K	AA	DD		C	Capacitor(50WV 1000pF) [C106,C108,C117] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1HB102K	AA	DD		C	Capacitor(50WV 1000pF) [C119,C120,C121,C122] ｺﾝﾃﾞﾝｻｰ
41	VHDDAN202U／－1	AB	DD		B	Diode(DAN202U) [D2,D7,D8,D9] ﾀﾞｲｵｰﾄﾞ
	VHDDAN202U／－1	AB	DD		B	Diode(DAN202U) [D21,D22] ﾀﾞｲｵｰﾄﾞ
42	VHDDAP202U／－1	AB	DD		B	Diode(DAP202U) [D10,D23] ﾀﾞｲｵｰﾄﾞ
43	VHDDSS133／／－1	AA	DD		B	Diode(1SS133) [D1,D5,D11,D12,D13,D20] ﾀﾞｲｵｰﾄﾞ
44	VHDMA704A／／－1	AC	DJ		B	Diode(MA704A) [D15,D16] ﾀﾞｲｵｰﾄﾞ
45	VHDRA13＋＋＋＋－1	AD	DJ		B	Diode(RA13) [D14] ﾀﾞｲｵｰﾄﾞ
46	VHERD22FB／／－1	AD	DJ		B	Zener diode(RD22FB) [D4] ﾂｪﾅｰﾀﾞｲｵｰﾄﾞ
47	VHH103AT－2／－1	AG	DS		B	Thermistor(103AT-2) [TH1] ｻｰﾐｽﾀｰ
48	VHHMSMDC014－1	AF	DS		B	Thermistor(miniSMDC014) [R71] ﾎﾟﾘｽｲｯﾁ
49	VHi65946P110C	BB	GD		B	I/O_ASIC(uPD65946GN-P11-LMU) [IC27] IC
50	VHi74VHC32MTC	AD	DJ		B	IC(74VHC32MTC) [IC9] IC
52	VHiH8S2320＋－1	AY	FQ		B	IC(H8S/2320) [IC23] IC
53	VHiHC151MTC－1	AE	DJ		B	LOGIC(74HC151MTCX) [IC13,IC14,IC15,IC20] IC
54	VHiHN58V65A－1	AW	FG		B	EEPROM(HN58V65AP) [IC22] EEPROM
55	VHiLM324D＋＋－1	AE	DJ		B	OP-AMP(LM324DR) [IC19] IC
56	VHiLM339D＋＋－1	AE	DJ		B	IC(LM339DT) [IC17] ｺﾝﾊﾟﾚｰﾀ
57	VHiM51957BFP1	AH	DX		B	IC(M51957BFP1) [IC35,IC34] IC
59	VHiSLA7031M－1	AQ	EQ		B	IC(SLA7031M) [IC1,IC28] IC
60	VHiSLA7032M－1	AR	EQ		B	IC(SLA7032M) [IC2] IC
61	VHiTA7291AS－1	AG	DX		B	IC(TA7291AS) [IC12] IC
62	VHiTD62003AF／	AE	DS		B	IC(TD62003AF) [IC3,IC4,IC5,IC6,IC7] IC
	VHiTD62003AF／	AE	DS		B	IC(TD62003AF) [IC8,IC33] IC
63	VHiVC4051MT－1	AF	DS		B	LOGIC(74VHC4051MTCX) [IC36] IC
64	VHiVHC14MTC－1	AD	DJ		B	LOGIC(74VHC14AMTCX) [IC10,IC16,IC18,IC32] IC
65	VHiVHCT14AM－1	AE	DJ		B	LOGIC(74VHCT14AMTCX) [IC29] IC
67	VHiVT574MTC－1	AF	DS		B	LOGIC(74VHCT574AMTCX) [IC11] IC
69	VRS－CY1JD270J	AA	DD		C	Resistor(1/16W 27Ω ±5%) [R51,R38] 抵抗
70	VRS－CZ1JD000J	AA	DD		C	Resistor(1/16W 0Ω ±5%) [R18,R19,R20,R23,R46] 抵抗
	VRS－CZ1JD000J	AA	DD		C	Resistor(1/16W 0Ω ±5%) [R97,R212,R140,R142] 抵抗
71	VRS－CZ1JD101J	AA	DD		C	Resistor(1/16W 100Ω ±5%) [R69,R90,R91,R110] 抵抗
	VRS－CZ1JD101J	AA	DD		C	Resistor(1/16W 100Ω ±5%) [R124,R172,R185] 抵抗
72	VRS－CZ1JD102J	AA	DD		C	Resistor(1/16W 1KΩ ±5%) [R13,R14,R27,R31,R32] 抵抗
	VRS－CZ1JD102J	AA	DD		C	Resistor(1/16W 1KΩ ±5%) [R33,R34,R35,R39,R52] 抵抗
	VRS－CZ1JD102J	AA	DD		C	Resistor(1/16W 1KΩ ±5%) [R57,R60,R63,R66,R67] 抵抗
	VRS－CZ1JD102J	AA	DD		C	Resistor(1/16W 1KΩ ±5%) [R75,R93,R111] 抵抗
	VRS－CZ1JD102J	AA	DD		C	Resistor(1/16W 1KΩ ±5%) [R113,R153,R154] 抵抗
	VRS－CZ1JD102J	AA	DD		C	Resistor(1/16W 1KΩ ±5%) [R161,R169,R195,R196,R197] 抵抗
	VRS－CZ1JD102J	AA	DD		C	Resistor(1/16W 1KΩ ±5%) [R202,R206,R207,R209,R210] 抵抗
	VRS－CZ1JD102J	AA	DD		C	Resistor(1/16W 1KΩ ±5%) [R213,R214] 抵抗
73	VRS－CZ1JD103F	AA	DD		C	Resistor(1/16W 10KΩ ±1%) [R199] 抵抗
74	VRS－CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) [R47,R78,R125,R149,R150] 抵抗
	VRS－CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) [R151,R152,R170,R175] 抵抗
75	VRS－CZ1JD104F	AA	DD		C	Resistor(1/16W 100KΩ ±1%) [R130,R131,R198] 抵抗
76	VRS－CZ1JD104J	AA	DD		C	Resistor(1/16W 100KΩ ±5%) [R42,R54,R56,R61,R70] 抵抗
	VRS－CZ1JD104J	AA	DD		C	Resistor(1/16W 100KΩ ±5%) [R101,R116,R117] 抵抗
	VRS－CZ1JD104J	AA	DD		C	Resistor(1/16W 100KΩ ±5%) [R145,R146] 抵抗
	VRS－CZ1JD104J	AA	DD		C	Resistor(1/16W 100KΩ ±5%) [R192] 抵抗
77	VRS－CZ1JD105J	AA	DD		C	Resistor(1/16W 1.0MΩ ±5%) [R81,R89,R92,R102,R103] 抵抗
	VRS－CZ1JD105J	AA	DD		C	Resistor(1/16W 1.0MΩ ±5%) [R144] 抵抗
78	VRS－CZ1JD113F	AA	DD		C	Resistor(1/16W 11KΩ ±1%) [R 168] 抵抗
79	VRS－CZ1JD162J	AA	DD		C	Resistor(1.6KJ)(MCR01MZSJ162) [R5,R106] 抵抗
80	VRS－CZ1JD201J	AA	DD		C	Resistor(1/16W 200Ω ±5%) [R109] 抵抗
81	VRS－CZ1JD202J	AA	DD		C	Resistor(1/16W 2.0KΩ ±5%) [R28] 抵抗
82	VRS－CZ1JD221J	AA	DD		C	Resistor(1/16W 220Ω ±5%) [R147] 抵抗
84	VRS－CZ1JD272J	AA	DD		C	Resistor(1/16W 2.7KΩ ±5%) [R99] 抵抗
85	VRS－CZ1JD273F	AA	DD		C	Resistor(1/16W 27KΩ ±1%)(MCR01MZSF272) [R 177] 抵抗
86	VRS－CZ1JD303J	AA	DD		C	Resistor(1/16W 30KΩ ±5%)(MCR01MZSJ303) [R11,R16] 抵抗
	VRS－CZ1JD303J	AA	DD		C	Resistor(1/16W 30KΩ ±5%)(MCR01MZSJ303) [R77] 抵抗
	VRS－CZ1JD303J	AA	DD		C	Resistor(1/16W 30KΩ ±5%)(MCR01MZSJ303) [R119,R134] 抵抗
	VRS－CZ1JD303J	AA	DD		C	Resistor(1/16W 30KΩ ±5%)(MCR01MZSJ303) [R165,R184] 抵抗
87	VRS－CZ1JD330J	AA	DD		C	Resistor(1/16W 33Ω ±5%) [R50,R76,R82,R85,R95] 抵抗
	VRS－CZ1JD330J	AA	DD		C	Resistor(1/16W 33Ω ±5%) [R98,R104,R136,R137,R143] 抵抗
	VRS－CZ1JD330J	AA	DD		C	Resistor(1/16W 33Ω ±5%) [R155,R156,R157,R188,R191] 抵抗
	VRS－CZ1JD330J	AA	DD		C	Resistor(1/16W 33Ω ±5%) [R193,R43,R64,R68,R41] 抵抗
88	VRS－CZ1JD391J	AA	DD		C	Resistor(1/16W 390Ω ±5%)(MCR01MZSJ391) [R7,R108] 抵抗
89	VRS－CZ1JD472J	AA	DD		C	Resistor(1/16W 4.7KΩ ±5%) [R1,R2,R3,R10,R12] 抵抗
	VRS－CZ1JD472J	AA	DD		C	Resistor(1/16W 4.7KΩ ±5%) [R17,R24,R30,R36,R37] 抵抗
	VRS－CZ1JD472J	AA	DD		C	Resistor(1/16W 4.7KΩ ±5%) [R40,R44,R45,R49,R53] 抵抗
	VRS－CZ1JD472J	AA	DD		C	Resistor(1/16W 4.7KΩ ±5%) [R55,R58,R59,R62,R65] 抵抗
	VRS－CZ1JD472J	AA	DD		C	Resistor(1/16W 4.7KΩ ±5%) [R72,R73,R80,R83,R87] 抵抗
	VRS－CZ1JD472J	AA	DD		C	Resistor(1/16W 4.7KΩ ±5%) [R88,R112,R114,R118,R121] 抵抗
	VRS－CZ1JD472J	AA	DD		C	Resistor(1/16W 4.7KΩ ±5%) [R122,R128,R133] 抵抗

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NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION
		Ex.	Ja.			
89	VRS－CZ1JD472J	AA	DD		C	Resistor(1/16W 4.7KΩ ±5%) [R148,R158] 抵抗
	VRS－CZ1JD472J	AA	DD		C	Resistor(1/16W 4.7KΩ ±5%) [R162,R171,R174] 抵抗
	VRS－CZ1JD472J	AA	DD		C	Resistor(1/16W 4.7KΩ ±5%) [R176,R186] 抵抗
	VRS－CZ1JD472J	AA	DD		C	Resistor(1/16W 4.7KΩ ±5%) [R187,R194,R201] 抵抗
	VRS－CZ1JD472J	AA	DD		C	Resistor(1/16W 4.7KΩ ±5%) [R203,R204] 抵抗
	VRS－CZ1JD472J	AA	DD		C	Resistor(1/16W 4.7KΩ ±5%) [R205,R208,R211] 抵抗
90	VRS－CZ1JD473J	AA	DD		C	Resistor(1/16W 47KΩ ±5%) [R86,R129,R189,R190] 抵抗
91	VRS－CZ1JD622J	AA	DD		C	Resistor(1/16W 6.2KΩ ±5%)(MCR01MZSJ622) [R74] 抵抗
93	VRS－CZ1JD821J	AA	DD		C	Resistor(1/16W 820Ω ±5%)(MCR01MZSJ821) [R107] 抵抗
94	VRS－TP2BD1R0J	AA	DD		C	Resistor(1/8W 1.0Ω ±5%) [R178,R179,R180,R181,R182] 抵抗
	VRS－TP2BD1R0J	AA	DD		C	Resistor(1/8W 1.0Ω ±5%) [R183] 抵抗
96	VS2SA1576A／－1	AB	DJ		B	Transistor(2SA1576A) [Q3,Q4,Q5,Q8] ﾄﾗﾝｼﾞｽﾀｰ
97	VS2SC2412K／－1	AB	DD		B	Transistor(2SC2412K) [Q39,Q35] ﾄﾗﾝｼﾞｽﾀｰ
98	VSDTA114YUA－1	AC	DJ		B	Transistor(DTA114YUA) [Q30,Q31,Q36,Q40,Q53,Q58] ﾄﾗﾝｼﾞｽﾀｰ
99	VSDTA144EUA－1	AC	DJ		B	Transistor(DTA144EUA) [Q49] ﾄﾗﾝｼﾞｽﾀｰ
100	VSDTC114YUA－1	AB	DJ		B	Transistor(DTC114YUA) [Q2,Q9,Q10,Q11,Q12] ﾄﾗﾝｼﾞｽﾀｰ
	VSDTC114YUA－1	AB	DJ		B	Transistor(DTC114YUA) [Q13,Q14,Q15,Q16,Q18] ﾄﾗﾝｼﾞｽﾀｰ
	VSDTC114YUA－1	AB	DJ		B	Transistor(DTC114YUA) [Q19,Q20,Q21,Q22,Q23] ﾄﾗﾝｼﾞｽﾀｰ
	VSDTC114YUA－1	AB	DJ		B	Transistor(DTC114YUA) [Q24,Q25,Q26,Q27,Q28] ﾄﾗﾝｼﾞｽﾀｰ
	VSDTC114YUA－1	AB	DJ		B	Transistor(DTC114YUA) [Q33,Q34,Q37,Q38] ﾄﾗﾝｼﾞｽﾀｰ
	VSDTC114YUA－1	AB	DJ		B	Transistor(DTC114YUA) [Q45,Q47] ﾄﾗﾝｼﾞｽﾀｰ
	VSDTC114YUA－1	AB	DJ		B	Transistor(DTC114YUA) [Q48,Q50,Q51,Q52,Q54] ﾄﾗﾝｼﾞｽﾀｰ
	VSDTC114YUA－1	AB	DJ		B	Transistor(DTC114YUA) [Q55,Q56,Q57,Q59] ﾄﾗﾝｼﾞｽﾀｰ
	(Unit)					
901	CPWBN1544DS51	BR	LX	N	E	PCU PWB UNIT PCU 基板ﾕﾆｯﾄ

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NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION
		Ex.	Ja.			
1	QCNCM0923FC10	AE	DJ		C	Connector(10pin) [CN9] ｺﾈｸﾀｰ
2	QCNCM0923FC14	AE	DJ		C	Connector(14pin) [CN10] ｺﾈｸﾀｰ
3	QCNCM0923FC16	AF	DS		C	Connector(16pin) [CN11] ｺﾈｸﾀｰ
4	QCNCM0923FC24	AF	DS		C	Connector(24pin) [CN12] ｺﾈｸﾀｰ
5	QCNCM0991FCZZ	AG	DX		C	Connector(30FMZ-BT) [CN3,CN13] ｺﾈｸﾀｰ
6	QCNCM1069AC1J	AD	DJ		C	Connector(10pin) [CN7] ｺﾈｸﾀｰ
7	QCNCM7014SC0F	AB	DD		C	Connector(6pin) [CN6] ｺﾈｸﾀｰ
8	QCNCW1157FCZZ	AB	DJ		C	Connector(IMSA-9604S-05C) [CN8] ｺﾈｸﾀｰ
9	QCNCW1169FCZZ	AG	DS		C	Connector(26FMZ-BT) [CN5] ｺﾈｸﾀｰ
10	QCNCW5380NCZZ	AC	DJ		C	Connector(B4B-PH-K-S) [CN14] ｺﾈｸﾀｰ
11	QSOCZ0071FCZZ	AP	EQ		C	Socket(MM20-72B1-1) [SOCKET1,SOCKET2] ｿｹｯﾄ
12	QSOCZ6428ACZZ	AE	DS		C	IC socket(28pin) [IC51] IC ｿｹｯﾄ
13	RCRSQ0072FCZZ	AF	DS		B	Crystal(22.1184MHz)(AT-51) [X1] ｸﾘｽﾀﾙ
14	RCRSQ0073FCZZ	AF	DS		B	Crystal(21.47727MHz)(AT-51) [X3] ｸﾘｽﾀﾙ
15	RCRSQ0074FCZZ	AF	DS		B	Crystal(25.69930MHz)(AT-51) [X4] ｸﾘｽﾀﾙ
16	RCRSZ0001QSZZ	AG	DS		B	Crystal(AT-51(19.6608MHz)) [X2] ｸﾘｽﾀﾙ
17	RFiLN0046FCZZ	AH	DX		C	Noise filter(ZJSC-R47121) [NF20] ﾉｲｽﾞﾌｨﾙﾀ
18	RFiLZ1042LCZZ	AC	DJ		C	Filter(1000pF) [NF3,NF10,NF11,NF13,NF15] ﾌｨﾙﾀｰ
	RFiLZ1042LCZZ	AC	DJ		C	Filter(1000pF) [NF16] ﾌｨﾙﾀｰ
19	RFiLZ1043LCZZ	AC	DJ		C	Filter(33000pF) [NF5,NF6,NF8,NF9,NF17] ﾌｨﾙﾀｰ
	RFiLZ1043LCZZ	AC	DJ		C	Filter(33000pF) [NF18,NF19,NF21,NF22] ﾌｨﾙﾀｰ
	RFiLZ1043LCZZ	AC	DJ		C	Filter(33000pF) [NF23,NF24,NF25,NF26,NF27] ﾌｨﾙﾀｰ
	RFiLZ1043LCZZ	AC	DJ		C	Filter(33000pF) [NF28,NF34,NF36,NF37,NF38] ﾌｨﾙﾀｰ
	RFiLZ1043LCZZ	AC	DJ		C	Filter(33000pF) [NF39] ﾌｨﾙﾀｰ
20	RH－iX0003QSZZ	AQ	EQ		B	IC(SRAM)(IS61LV256-12J) [IC41,IC33] IC(SRAM)
21	RH－iX3103YAZZ	AG	DS		B	REGURATOR(L1087MPX_ADJ) [IC1,IC12,IC18,IC43,IC57] IC
22	RMPTC4103QCJJ	AC	DD		B	Block resistor(10KΩ×4) [BR52,BR53,BR54,BR55,BR67] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTC4103QCJJ	AC	DD		B	Block resistor(10KΩ×4) [BR68,BR69,BR73,BR74,BR75] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTC4103QCJJ	AC	DD		B	Block resistor(10KΩ×4) [BR79,BR80,BR81,BR82,BR83] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTC4103QCJJ	AC	DD		B	Block resistor(10KΩ×4) [BR84,BR95,BR98,BR99,BR101] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTC4103QCJJ	AC	DD		B	Block resistor(10KΩ×4) [BR102,BR103,BR105,BR107] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTC4103QCJJ	AC	DD		B	Block resistor(10KΩ×4) [BR109,BR111,BR113,BR117] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTC4103QCJJ	AC	DD		B	Block resistor(10KΩ×4) [BR118,BR120,BR122,BR124] ﾌﾞﾛｯｸﾃｲｺｳ
23	RMPTC4330QCJJ	AC	DD		B	Block resistor(33Ω×4) [BR1,BR2,BR3,BR4,BR5,BR6] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTC4330QCJJ	AC	DD		B	Block resistor(33Ω×4) [BR7,BR8,BR9,BR10,BR20] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTC4330QCJJ	AC	DD		B	Block resistor(33Ω×4) [BR21,BR22,BR23,BR24,BR25] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTC4330QCJJ	AC	DD		B	Block resistor(33Ω×4) [BR26,BR27,BR28,BR29,BR30] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTC4330QCJJ	AC	DD		B	Block resistor(33Ω×4) [BR31,BR32,BR33,BR38,BR39] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTC4330QCJJ	AC	DD		B	Block resistor(33Ω×4) [BR40,BR41,BR42,BR43,BR44] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTC4330QCJJ	AC	DD		B	Block resistor(33Ω×4) [BR45,BR46,BR47,BR48,BR49] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTC4330QCJJ	AC	DD		B	Block resistor(33Ω×4) [BR50,BR51,BR56,BR57,BR58] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTC4330QCJJ	AC	DD		B	Block resistor(33Ω×4) [BR59,BR60,BR61,BR62,BR63] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTC4330QCJJ	AC	DD		B	Block resistor(33Ω×4) [BR65,BR66,BR70,BR71,BR72] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTC4330QCJJ	AC	DD		B	Block resistor(33Ω×4) [BR76,BR77,BR78,BR85,BR86] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTC4330QCJJ	AC	DD		B	Block resistor(33Ω×4) [BR87,BR88,BR89,BR90,BR91] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTC4330QCJJ	AC	DD		B	Block resistor(33Ω×4) [BR92,BR93,BR94,BR96,BR97] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTC4330QCJJ	AC	DD		B	Block resistor(33Ω×4) [BR100,BR104,BR106,BR108] ﾌﾞﾛｯｸﾃｲｺｳ

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NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION
		Ex.	Ja.			
23	RMPTC4330QCJJ	AC	DD		B	Block resistor(33Ω×4) [BR110,BR112,BR114,BR115] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTC4330QCJJ	AC	DD		B	Block resistor(33Ω×4) [BR116,BR119,BR121,BR123] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTC4330QCJJ	AC	DD		B	Block resistor(33Ω×4) [BR125,BR127,BR128,BR129] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTC4330QCJJ	AC	DD		B	Block resistor(33Ω×4) [BR130,BR131,BR132,BR133] ﾌﾞﾛｯｸﾃｲｺｳ
24	RMPTC4473QCJJ	AC	DD		B	Block resistor(47KΩ×4) [BR15,BR16,BR17,BR18,BR19] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTC4473QCJJ	AC	DD		B	Block resistor(47KΩ×4) [BR34,BR35,BR36,BR37,BR64] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTC4473QCJJ	AC	DD		B	Block resistor(47KΩ×4) [BR126] ﾌﾞﾛｯｸﾃｲｺｳ
25	VCCCCZ1HH150J	AA	DD		C	Capacitor(50WV 15pF) [C315,C316] ｺﾝﾃﾞﾝｻｰ
26	VCCCCZ1HH220J	AA	DD		C	Capacitor(50WV 22pF) [C260,C262,C391] ｺﾝﾃﾞﾝｻｰ
	VCCCCZ1HH220J	AA	DD		C	Capacitor(50WV 22pF) [C421,C454,C455] ｺﾝﾃﾞﾝｻｰ
27	VCEAEA0JW107M	AA	DD		C	Capacitor(6.3WV 100µF) [C10,C14,C30,C33,C59,C60] ｺﾝﾃﾞﾝｻｰ
	VCEAEA0JW107M	AA	DD		C	Capacitor(6.3WV 100µF) [C70,C71,C187,C191,C194] ｺﾝﾃﾞﾝｻｰ
	VCEAEA0JW107M	AA	DD		C	Capacitor(6.3WV 100µF) [C195,C268,C285,C289,C294] ｺﾝﾃﾞﾝｻｰ
	VCEAEA0JW107M	AA	DD		C	Capacitor(6.3WV 100µF) [C296,C299,C300,C314,C325] ｺﾝﾃﾞﾝｻｰ
	VCEAEA0JW107M	AA	DD		C	Capacitor(6.3WV 100µF) [C334,C361,C371,C379,C380] ｺﾝﾃﾞﾝｻｰ
	VCEAEA0JW107M	AA	DD		C	Capacitor(6.3WV 100µF) [C401,C405,C409,C444,C447] ｺﾝﾃﾞﾝｻｰ
	VCEAEA0JW107M	AA	DD		C	Capacitor(6.3WV 100µF) [C451,C574] ｺﾝﾃﾞﾝｻｰ
28	VCEAGA1AW476M	AA	DD		C	Capacitor(10WV 47µF) [C224,C393,C425,C461,C462] ｺﾝﾃﾞﾝｻｰ
	VCEAGA1AW476M	AA	DD		C	Capacitor(10WV 47µF) [C463,C464,C465,C466] ｺﾝﾃﾞﾝｻｰ
29	VCEAGA1AW477M	AB	DD		C	Capacitor(10WV 470µF) [C4,C5,C62,C64,C220,C222] ｺﾝﾃﾞﾝｻｰ
	VCEAGA1AW477M	AB	DD		C	Capacitor(10WV 470µF) [C305,C307,C395,C429,C474] ｺﾝﾃﾞﾝｻｰ
30	VCEAGA1CW106M	AA	DD		C	Capacitor(16WV 10µF) [C6,C61,C150,C225,C426] ｺﾝﾃﾞﾝｻｰ
	VCEAGA1CW106M	AA	DD		C	Capacitor(16WV 10µF) [C572,C573] ｺﾝﾃﾞﾝｻｰ
31	VCEAGA1CW107M	AC	DD		C	Capacitor(100µF/16V) [C411,C446] ｺﾝﾃﾞﾝｻｰ
32	VCEAGA1HW224M	AA	DD		C	Capacitor(50WV 0.22µF) [C357,C399] ｺﾝﾃﾞﾝｻｰ
33	VCEAGA1VW107M	AB	DD		C	Capacitor(35WV 100µF) [C410,C570] ｺﾝﾃﾞﾝｻｰ
34	VCEAGA1VW227M	AB	DD		C	Capacitor(35WV 220µF) [C352,C398,C404,C438,C478] ｺﾝﾃﾞﾝｻｰ
	VCEAGA1VW227M	AB	DD		C	Capacitor(35WV 220µF) [C569] ｺﾝﾃﾞﾝｻｰ
35	VCKYCY1HF223Z	AA	DD		C	Capacitor(50WV 0.022µF) [C212,C400,C427,C483,C364] ｺﾝﾃﾞﾝｻｰ
36	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C3,C7,C8,C9,C11,C12,C13] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C15,C16,C17,C18,C19,C20] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C21,C22,C23,C24,C25,C26] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C27,C28,C29,C34,C35,C36] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C37,C38,C39,C40,C41,C42] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C43,C44,C45,C46,C47,C48] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C49,C50,C51,C52,C53,C54] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C55,C56,C57,C58,C63,C65] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C72,C73,C74,C75,C76,C77] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C78,C79,C80,C81,C82,C83] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C84,C85,C86,C87,C88,C89] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C90,C91,C92,C93,C94,C95] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C97,C99,C100,C102,C103] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C104,C105,C106,C107,C108] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C109,C111,C112,C113,C114] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C115,C116,C117,C118,C119] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C120,C121,C122,C123,C124] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C125,C126,C127,C128,C129] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C130,C131,C132,C133,C134] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C135,C136,C137,C138,C139] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C140,C141,C142,C149,C151] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C152,C153,C154,C155,C156] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C157,C158,C159,C160,C161] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C162,C163,C164,C165,C166] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C167,C168,C169,C171,C172] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C173,C174,C175,C176,C182] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C183,C184,C185,C186,C188] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C189,C190,C192,C193,C197] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C198,C199,C200,C201,C202] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C203,C205,C206,C207,C208] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C209,C210,C211,C216,C218] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C221,C223,C228,C230,C231] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C234,C236,C237,C244,C246] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C248,C249,C250,C252] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C254,C261,C263,C267] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C269,C270,C271,C275,C277] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C278,C279,C280,C281,C282] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C283,C284,C286,C287,C288] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C290,C291,C292,C293,C295] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C297,C298,C304,C306] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C313,C318,C319,C320,C321] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C322,C324,C327,C328,C329] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C333,C335,C336,C337,C339] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C340,C341,C342,C343,C344] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C345,C346,C347,C348,C350] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C351,C358,C359,C360,C362] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C363,C366,C367,C368,C369] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C370,C373,C375,C381,C382] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C383,C384,C385,C386,C387] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C388,C389,C390,C392,C394] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C396,C397,C402,C403,C407] ｺﾝﾃﾞﾝｻｰ

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NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION
		Ex.	Ja.			
36	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C408,C412,C413,C414,C415] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C416,C417,C419,C420,C423] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C424,C428,C430,C431,C432] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C439,C440,C445,C448,C449] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C450,C452,C453,C458,C460] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C467,C468,C475,C479,C482] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C485,C487,C488,C490,C491] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C492,C493,C494,C496,C497] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C498,C499,C500,C501,C503] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C505,C506,C507,C509,C510] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C513,C514,C515,C516,C517] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C518,C520,C521,C522,C523] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C524,C525,C527,C529,C530] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C531,C533,C534,C537,C538] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C539,C540,C541,C542,C544] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C545,C546,C547,C548,C549] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C551,C553,C554,C555,C557] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C558,C560,C579,C580] ｺﾝﾃﾞﾝｻｰ
37	VCKYCZ1EB472K	AA	DD		C	Capacitor(25WV 4700p(1005)) [C470] ｺﾝﾃﾞﾝｻｰ
38	VCKYCZ1HB102K	AA	DD		C	Capacitor(50WV 1000pF) [C110,C144,C145,C146,C170] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1HB102K	AA	DD		C	Capacitor(50WV 1000pF) [C196,C204,C213,C214,C215] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1HB102K	AA	DD		C	Capacitor(50WV 1000pF) [C217,C219,C238,C247,C251] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1HB102K	AA	DD		C	Capacitor(50WV 1000pF) [C253,C255,C256,C257,C259] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1HB102K	AA	DD		C	Capacitor(50WV 1000pF) [C301,C302,C303,C323] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1HB102K	AA	DD		C	Capacitor(50WV 1000pF) [C326,C331,C338,C353,C354] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1HB102K	AA	DD		C	Capacitor(50WV 1000pF) [C355,C356,C372,C374] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1HB102K	AA	DD		C	Capacitor(50WV 1000pF) [C406,C418,C433,C434,C435] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1HB102K	AA	DD		C	Capacitor(50WV 1000pF) [C436,C441,C442,C471,C473] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1HB102K	AA	DD		C	Capacitor(50WV 1000pF) [C476,C477,C486,C504,C528] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1HB102K	AA	DD		C	Capacitor(50WV 1000pF) [C552,C561,C562,C563,C564] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1HB102K	AA	DD		C	Capacitor(50WV 1000pF) [C565,C566,C567,C568] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1HB102K	AA	DD		C	Capacitor(50WV 1000pF) [C1,C2,C66,C67,C68] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1HB102K	AA	DD		C	Capacitor(50WV 1000pF) [C308,C365] ｺﾝﾃﾞﾝｻｰ
39	VCKYCZ1HF103Z	AA	DD		C	Capacitor(0.01µF/50V) [C143,C147,C148,C226,C227] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1HF103Z	AA	DD		C	Capacitor(0.01µF/50V) [C229,C232,C233,C235,C312] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1HF103Z	AA	DD		C	Capacitor(0.01µF/50V) [C349,C437,C443,C480,C571] ｺﾝﾃﾞﾝｻｰ
40	VCKYTQ0JF106Z	AD	DJ		C	Capacitor(6.3WV 10µF) [C484,C489,C495,C502,C508] ｺﾝﾃﾞﾝｻｰ
	VCKYTQ0JF106Z	AD	DJ		C	Capacitor(6.3WV 10µF) [C512,C519,C526,C532,C536] ｺﾝﾃﾞﾝｻｰ
	VCKYTQ0JF106Z	AD	DJ		C	Capacitor(6.3WV 10µF) [C543,C550,C556] ｺﾝﾃﾞﾝｻｰ
41	VHDDAN202U／−1	AB	DD		B	Diode(DAN202U) [D1,D2,D7,D8,D11,D15,D18] ﾀﾞｲｵｰﾄﾞ
	VHDDAN202U／−1	AB	DD		B	Diode(DAN202U) [D21,D23,D31,D34,D36,D38] ﾀﾞｲｵｰﾄﾞ
	VHDDAN202U／−1	AB	DD		B	Diode(DAN202U) [D39,D40,D42,D55,D56,D57] ﾀﾞｲｵｰﾄﾞ
42	VHDDAP202U／−1	AB	DD		B	Diode(DAP202U) [D3,D4,D9,D10,D12,D14,D17] ﾀﾞｲｵｰﾄﾞ
	VHDDAP202U／−1	AB	DD		B	Diode(DAP202U) [D20,D22,D30,D32,D35,D37] ﾀﾞｲｵｰﾄﾞ
	VHDDAP202U／−1	AB	DD		B	Diode(DAP202U) [D41,D43,D44,D45,D52,D53] ﾀﾞｲｵｰﾄﾞ
	VHDDAP202U／−1	AB	DD		B	Diode(DAP202U) [D54] ﾀﾞｲｵｰﾄﾞ
43	VHDDSS133／／−1	AA	DD		B	Diode(1SS133) [D5,D6,D13,D25,D26,D27] ﾀﾞｲｵｰﾄﾞ
	VHDDSS133／／−1	AA	DD		B	Diode(1SS133) [D28,D29,D33,D60] ﾀﾞｲｵｰﾄﾞ
44	VHDM1FS4／／／−1	AD	DJ		B	Diode(M1FS4) [D46,D47,D48,D49,D50,D51] ﾀﾞｲｵｰﾄﾞ
	VHDM1FS4／／／−1	AD	DJ		B	Diode(M1FS4) [D58,D59] ﾀﾞｲｵｰﾄﾞ
45	VHDMA704A／／−1	AC	DJ		B	Diode(MA704A) [D16] ﾀﾞｲｵｰﾄﾞ
46	VHDRA13＋＋＋＋−1	AD	DJ		B	Diode(RA13) [D24] ﾀﾞｲｵｰﾄﾞ
47	VHEHZS3B1／／−1	AC	DJ		B	Zener diode(HZS3B1) [ZD1] ﾂｪﾅｰﾀﾞｲｵｰﾄﾞ
48	VHi161622FH1C	BA	FX		B	FCRAM(MB81E161622) [IC3,IC5,IC13] FCRAM
49	VHi61LV6416−1	AX	FG		B	SRAM(IS61LV6416(TSOP)) [IC50] SRAM
50	VHi74LCX08MTC	AE	DJ		B	IC(74LCX08MTC) [IC49] IC
51	VHi74LCX14MTC	AE	DJ		B	IC(74LCX14MTC) [IC11,IC17,IC22] IC
	VHi74LCX14MTC	AE	DJ		B	IC(74LCX14MTC) [IC32,IC39,IC48] IC
52	VHi74LCX244MT	AM	DX		B	IC(74LCX244MT) [IC14,IC25,IC27,IC34,IC35] IC
53	VHi74LCX245MT	AM	DX		B	IC(74LCX245MT) [IC42] IC
54	VHi74VHC08／−1	AE	DS		B	IC(74VHC08) [IC26] IC
56	VHi90C363A＋−1	AU	FG		B	LVDS(DS90C363AMTD) [IC19] IC
58	VHiH8S2320＋−1	AY	FQ		B	IC(H8S/2320) [IC31,IC23] IC
59	VHiHG73C095−1	AY	FQ		B	CCDC(HG73C095TE) [IC45] IC
60	VHiHN58V65A−1	AW	FG		B	EEPROM(HN58V65AP) [IC51] EEPROM
61	VHiLM358DR＋−1	AF	DS		B	IC(LM358D) [IC16,IC38] IC
62	VHiLM98513＋−1	AY	FQ		B	A/D CONVERTER(LM98513) [IC54,IC55,IC56] IC
63	VHiM51957BFP1	AH	DX		B	IC(M51957BFP1) [IC21,IC40] IC
64	VHiM87J8310−1	BQ	LP		B	CPT-ASIC(208 QFP)(208 QFP) [IC15] IC
65	VHiM87L4240−1	BG	GT		B	ASIC-A(MB87L4240PMT-G-BND(208QFP)) [IC10] IC
66	VHiM87M1290−1	BZ	TF		B	ASIC-B(MB87M1290PFVS-G-BND(304QFP)) [IC6] IC
67	VHiMBLV064N−1	BA	FX		B	ROM(NAND (MBM30LV0064-PFTN)) [IC2] 色補正 ROM
68	VHiMTD2007F−1	AU	EZ		B	IC(MTD2007F) [IC53] IC
70	VHiSD8M16L1−1	BB	GD		B	SDRAM(HY57V281620HCT-P) [IC37] SDRAM
71	VHiTD62003AF／	AE	DS		B	IC(TD62003AF) [IC44] IC
72	VHiTD62503F／−	AG	DX		B	IC(TD62503F) [IC28,IC29] IC
73	VHiUPD85632−1	BM	HV		B	SCN-ASIC(240 QFP)(240 QFP) [IC36] IC
74	VHiUPD85658−1	BV	RB		B	ASIC-C(240 QFP(UPD85658GN-011-LMU)) [IC9] IC
75	VHPLT1F67AF−1	AC	DJ		B	LED(LT1F67AF) [LED1,LED2] LED
76	VRS−CZ1JD000J	AA	DD		C	Resistor(1/16W 0Ω ±5%) [R48,R57,R62,R110] 抵抗

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NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION
		Ex.	Ja.			
76	VRS−CZ1JD000J	AA	DD		C	Resistor(1/16W 0Ω ±5%) [R88,R144,R170] 抵抗
	VRS−CZ1JD000J	AA	DD		C	Resistor(1/16W 0Ω ±5%) [R171,R180,R198,R199,R200] 抵抗
	VRS−CZ1JD000J	AA	DD		C	Resistor(1/16W 0Ω ±5%) [R201,R202,R223,R229,R233] 抵抗
	VRS−CZ1JD000J	AA	DD		C	Resistor(1/16W 0Ω ±5%) [R248,R249,R251,R256,R262] 抵抗
	VRS−CZ1JD000J	AA	DD		C	Resistor(1/16W 0Ω ±5%) [R263,R265,R270,R276,R277] 抵抗
	VRS−CZ1JD000J	AA	DD		C	Resistor(1/16W 0Ω ±5%) [R279,R284,R130] 抵抗
77	VRS−CZ1JD101J	AA	DD		C	Resistor(1/16W 100Ω ±5%) [R131] 抵抗
78	VRS−CZ1JD102J	AA	DD		C	Resistor(1/16W 1KΩ ±5%) [R1,R2,R4,R15,R16,R25,R90] 抵抗
	VRS−CZ1JD102J	AA	DD		C	Resistor(1/16W 1KΩ ±5%) [R91,R92,R124,R125,R126] 抵抗
	VRS−CZ1JD102J	AA	DD		C	Resistor(1/16W 1KΩ ±5%) [R127,R184,R186,R235] 抵抗
79	VRS−CZ1JD103F	AA	DD		C	Resistor(1/16W 10KΩ ±1%) [R43] 抵抗
80	VRS−CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) [R12,R26,R27,R28,R45,R51] 抵抗
	VRS−CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) [R58,R65,R69,R85] 抵抗
	VRS−CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) [R87,R95,R102] 抵抗
	VRS−CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) [R111,R113,R115,R128] 抵抗
	VRS−CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) [R129,R132,R133,R136,R137] 抵抗
	VRS−CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) [R138,R140,R156,R157,R158] 抵抗
	VRS−CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) [R191,R193,R195,R196,R243] 抵抗
	VRS−CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) [R244,R245,R257,R271,R285] 抵抗
	VRS−CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) [R288,R289,R291] 抵抗
81	VRS−CZ1JD105J	AA	DD		C	Resistor(1/16W 1.0MΩ ±5%) [R121,R179,R222] 抵抗
83	VRS−CZ1JD122J	AA	DD		C	Resistor(1/16W 1.2KΩ ±5%) [R30,R31,R32] 抵抗
	VRS−CZ1JD122J	AA	DD		C	Resistor(1/16W 1.2KΩ ±5%) [R33,R41,R154] 抵抗
	VRS−CZ1JD122J	AA	DD		C	Resistor(1/16W 1.2KΩ ±5%) [R155] 抵抗
84	VRS−CZ1JD123J	AA	DD		C	Resistor(1/16W 12KΩ ±5%) [R42] 抵抗
85	VRS−CZ1JD133J	AA	DD		C	Resistor(1/16W 13KΩ ±5%) [R231] 抵抗
86	VRS−CZ1JD152J	AA	DD		C	Resistor(1/16W 1.5KΩ ±5%) [R17,R22,R40] 抵抗
88	VRS−CZ1JD203F	AA	DD		C	Resistor(1/16W 20KΩ ±1%) [R44] 抵抗
89	VRS−CZ1JD203J	AA	DD		C	Resistor(1/16W 20KΩ ±5%) [R183,R185,R234] 抵抗
90	VRS−CZ1JD220J	AA	DD		C	Resistor(1/16W 22Ω ±5%) [R162,R166,R167,R168,R206] 抵抗
	VRS−CZ1JD220J	AA	DD		C	Resistor(1/16W 22Ω ±5%) [R209,R211,R212] 抵抗
91	VRS−CZ1JD221J	AA	DD		C	Resistor(1/16W 220Ω ±5%) [R78,R292,R293] 抵抗
92	VRS−CZ1JD242J	AA	DD		C	Resistor(1/16W 2.4KΩ ±5%) [R29,R230,R232] 抵抗
93	VRS−CZ1JD303J	AA	DD		C	Resistor(1/16W 30KΩ ±5%) [R89] 抵抗
94	VRS−CZ1JD330J	AA	DD		C	Resistor(1/16W 33Ω ±5%) [R134,R135,R139,R141] 抵抗
	VRS−CZ1JD330J	AA	DD		C	Resistor(1/16W 33Ω ±5%) [R187,R189] 抵抗
	VRS−CZ1JD330J	AA	DD		C	Resistor(1/16W 33Ω ±5%) [R319,R320,R321,R322,R323] 抵抗
	VRS−CZ1JD330J	AA	DD		C	Resistor(1/16W 33Ω ±5%) [R324,R62,R110] 抵抗
95	VRS−CZ1JD331J	AA	DD		C	Resistor(1/16W 330Ω ±5%) [R123,R150,R221] 抵抗
96	VRS−CZ1JD332F	AA	DD		C	Resistor(1/16W 3.3KΩ ±1%) [R120,R119] 抵抗
97	VRS−CZ1JD362J	AA	DD		C	Resistor(1/16W 3.6KΩ ±5%) [R294,R295,R296] 抵抗
	VRS−CZ1JD362J	AA	DD		C	Resistor(1/16W 3.6KΩ ±5%) [R297,R298] 抵抗
	VRS−CZ1JD362J	AA	DD		C	Resistor(1/16W 3.6KΩ ±5%) [R299,R300,R301] 抵抗
	VRS−CZ1JD362J	AA	DD		C	Resistor(1/16W 3.6KΩ ±5%) [R302,R304] 抵抗
	VRS−CZ1JD362J	AA	DD		C	Resistor(1/16W 3.6KΩ ±5%) [R305,R306,R307] 抵抗
	VRS−CZ1JD362J	AA	DD		C	Resistor(1/16W 3.6KΩ ±5%) [R308,R309] 抵抗
	VRS−CZ1JD362J	AA	DD		C	Resistor(1/16W 3.6KΩ ±5%) [R310,R311,R312] 抵抗
98	VRS−CZ1JD470J	AA	DD		C	Resistor(1/16W 47Ω ±5%) [R3,R5,R6,R18,R20,R21,R36] 抵抗
	VRS−CZ1JD470J	AA	DD		C	Resistor(1/16W 47Ω ±5%) [R37,R38,R39,R49,R80,R83] 抵抗
	VRS−CZ1JD470J	AA	DD		C	Resistor(1/16W 47Ω ±5%) [R84,R86,R116,R142,R159] 抵抗
	VRS−CZ1JD470J	AA	DD		C	Resistor(1/16W 47Ω ±5%) [R192,R194,R204,R205,R214] 抵抗
	VRS−CZ1JD470J	AA	DD		C	Resistor(1/16W 47Ω ±5%) [R220,R226,R227] 抵抗
	VRS−CZ1JD470J	AA	DD		C	Resistor(1/16W 47Ω ±5%) [R325,R326] 抵抗
99	VRS−CZ1JD471J	AA	DD		C	Resistor(1/16W 470Ω ±5%) [R203,R213,R225,R259,R273] 抵抗
	VRS−CZ1JD471J	AA	DD		C	Resistor(1/16W 470Ω ±5%) [R287] 抵抗
100	VRS−CZ1JD472F	AA	DD		C	Resistor(1/16W 4.7kΩ ±1%)(MCR01MZSF472) [R122,R118] 抵抗
101	VRS−CZ1JD472J	AA	DD		C	Resistor(1/16W 4.7KΩ ±5%) [R53,R54,R55] 抵抗
	VRS−CZ1JD472J	AA	DD		C	Resistor(1/16W 4.7KΩ ±5%) [R93,R94,R105] 抵抗
	VRS−CZ1JD472J	AA	DD		C	Resistor(1/16W 4.7KΩ ±5%) [R107,R112,R188] 抵抗
	VRS−CZ1JD472J	AA	DD		C	Resistor(1/16W 4.7KΩ ±5%) [R190,R239] 抵抗
	VRS−CZ1JD472J	AA	DD		C	Resistor(1/16W 4.7KΩ ±5%) [R240,R241,R242] 抵抗
102	VRS−CZ1JD473J	AA	DD		C	Resistor(1/16W 47KΩ ±5%) [R19,R59,R60,R61,R81,R114] 抵抗
	VRS−CZ1JD473J	AA	DD		C	Resistor(1/16W 47KΩ ±5%) [R117,R145,R147,R149,R160] 抵抗
	VRS−CZ1JD473J	AA	DD		C	Resistor(1/16W 47KΩ ±5%) [R161,R164,R165,R169] 抵抗
105	VRS−HT3DAR51J	AC	DD		C	Resistor(2W 0.51Ω ±5%) [R153,R152] 抵抗
106	VS2SB1197／／−1	AC	DJ		B	Transistor(2SB1197) [Q22,Q24,Q26] ﾄﾗﾝｼﾞｽﾀｰ
107	VSDTA114EUA−1	AC	DJ		B	Transistor(DTA114EUA) [Q16,Q21,Q28,Q29,Q37] ﾄﾗﾝｼﾞｽﾀｰ
108	VSDTC114YUA−1	AB	DJ		B	Transistor(DTC114YUA) [Q1,Q2,Q3,Q4,Q5,Q6,Q8,Q9] ﾄﾗﾝｼﾞｽﾀｰ
	VSDTC114YUA−1	AB	DJ		B	Transistor(DTC114YUA) [Q10,Q11,Q12,Q13,Q14,Q15] ﾄﾗﾝｼﾞｽﾀｰ
	VSDTC114YUA−1	AB	DJ		B	Transistor(DTC114YUA) [Q19,Q20,Q23,Q25,Q27,Q30] ﾄﾗﾝｼﾞｽﾀｰ
	VSDTC114YUA−1	AB	DJ		B	Transistor(DTC114YUA) [Q31,Q33,Q34,Q35,Q17] ﾄﾗﾝｼﾞｽﾀｰ
	(Unit)					
901	CPWBN1519DS52	CX	＊＊	N	E	MFPC2 PWB UNIT MPFC2 基板ﾕﾆｯﾄ

㊽ ICU 基板 (ICU PWB)

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION
		Ex.	Ja.			
1	PCAPH0010GCZZ	AD	DJ		C	Cap(JM-2W-96) [PIN1,PIN2] ｷｬｯﾌﾟ
2	PCŌVP1468FCZZ	AD	DJ		D	FAX battery cover FAX ﾃﾞﾝﾁｶﾊﾞｰ
3	QCNCM0923FC14	AE	DJ		C	Connector(14pin) [CN10] ｺﾈｸﾀｰ
4	QCNCM0923FC22	AF	DS		C	Connector(22pin) [CN4,CN5,CN6,CN9] ｺﾈｸﾀｰ
5	QCNCM0923FC24	AF	DS		C	Connector(24pin) [CN13] ｺﾈｸﾀｰ
6	QCNCM1069AC1J	AD	DJ		C	Connector(10pin) [CN11] ｺﾈｸﾀｰ
7	QCNCM1187FCZZ	AM	EG	N	C	Connector(F_BM30B-SRDS-G-TF) (AR-C260F/C260FP) [CN12] ｺﾈｸﾀｰ
8	QCNCM7014SC0C	AA	DD		C	Connector(3pin) [CN20] ｺﾈｸﾀｰ
9	QCNCM7014SC0G	AB	DD		C	Connector(7pin) (Japan Only) [CN14] ｺﾈｸﾀｰ
10	QCNCW0948FCZ6	AC	DJ		C	Connector(B06B-XASK-1) [CN1,CN2,CN3,CN7] ｺﾈｸﾀｰ
11	QCNCW1047FCZZ	AH	DX		C	Connector(TSC7658-01-201) [CN18] ｺﾈｸﾀｰ
12	QCNCW1170FCZZ	AG	DS		C	Connector(28FMZ-BT) [CN16] ｺﾈｸﾀｰ
13	QCNCW1186FCZZ	AF	DS		C	Connector(TX25-100P-LT-H1) [CN17] ｺﾈｸﾀｰ
14	QPiN-0003GCZZ	AC	DJ		C	Pin(T3B-SQ) [PIN1,PIN2] ﾋﾟﾝ
15	QSŌCZ0001QSZZ	AL	EB		C	Socket(DMM168-FLAA2-3A133) [DIMM2,DIMM1] ｿｹｯﾄ
16	QSŌCZ0073FCZZ	AL	EB		C	Connector(72pin) [SOCKET2,SOCKET3] ｺﾈｸﾀｰ
	QSŌCZ0073FCZZ	AL	EB		C	Connector(72pin) (AR-C260F/C260FP)[SOCKET1] ｺﾈｸﾀｰ
17	QSŌCZ6428ACZZ	AE	DS		C	IC socket(28pin) [IC50] IC ｿｹｯﾄ
18	RCRSP0069FCZZ	AG	DS		B	Crystal(14.7456MHz)(AT-51) [X3] ｸﾘｽﾀﾙ
19	RCRSP0077FCZZ	AF	DS		B	Crystal(16.667MHz)(AT-51) [X5] ｸﾘｽﾀﾙ
20	RCRSP0079FCZZ	AF	DS		B	Crystal(12.352MHz)(AT-51) [X6] ｸﾘｽﾀﾙ
21	RCRSP6676RCZZ	AG	DX		B	Crystal(32.768KHz) [X9] ｸﾘｽﾀﾙ
22	RCRSQ0073FCZZ	AF	DS		B	Crystal(21.47727MHz)(AT-51) [X1] ｸﾘｽﾀﾙ
23	RFiLN5022NCZZ	AC	DJ		C	EMI filter(BLM11A12PT) [L1,L2,L5,L7,L9,L11,L13] EMI ﾌｨﾙﾀｰ
	RFiLN5022NCZZ	AC	DJ		C	EMI filter(BLM11A12PT) [L15,L16,L20,L22,L24,L26] EMI ﾌｨﾙﾀｰ
	RFiLN5022NCZZ	AC	DJ		C	EMI filter(BLM11A12PT) [L27,L29,L32,L35,L36,L37] EMI ﾌｨﾙﾀｰ
24	RFiLZ1043LCZZ	AC	DJ		C	Filter(33000pF) [NF2,NF3,NF4,NF5,NF6,NF8] ﾌｨﾙﾀｰ
	RFiLZ1043LCZZ	AC	DJ		C	Filter(33000pF) [NF9] ﾌｨﾙﾀｰ
25	RH-iX3103YAZZ	AG	DS		B	REGURATOR(L1087MPX_ADJ) [IC51,IC31] IC
26	RMEMM0001FCZZ	BZ	TF		B	SDRAM-Module-PWB(256MB-DIMM) [DIMM2] SDRAM-Module-PWB
27	RMPTW4100QCJJ	AA	DD		B	Block resistor(10Ω×4) [BR42,BR58,BR61,BR66] ﾌﾞﾛｯｸﾃｲｺｳ
28	RMPTW4101QCJJ	AB	DD		B	Block resistor(100Ω×4) [BR1,BR2,BR3,BR4,BR5,BR6] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTW4101QCJJ	AB	DD		B	Block resistor(100Ω×4) [BR26,BR40] ﾌﾞﾛｯｸﾃｲｺｳ
29	RMPTW4103QCJJ	AB	DD		B	Block resistor(10KΩ×4) [BR7,BR8,BR9,BR10,BR11] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTW4103QCJJ	AB	DD		B	Block resistor(10KΩ×4) [BR12,BR13,BR14,BR15,BR18] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTW4103QCJJ	AB	DD		B	Block resistor(10KΩ×4) [BR25,BR27,BR28,BR39,BR41] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTW4103QCJJ	AB	DD		B	Block resistor(10KΩ×4) [BR57,BR62,BR63,BR64,BR65] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTW4103QCJJ	AB	DD		B	Block resistor(10KΩ×4) [BR84,BR85,BR104,BR108] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTW4103QCJJ	AB	DD		B	Block resistor(10KΩ×4) [BR109,BR110,BR111,BR114] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTW4103QCJJ	AB	DD		B	Block resistor(10KΩ×4) [BR115,BR116,BR117,BR122] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTW4103QCJJ	AB	DD		B	Block resistor(10KΩ×4) [BR124,BR132,BR137,BR142] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTW4103QCJJ	AB	DD		B	Block resistor(10KΩ×4) [BR146,BR150,BR152,BR154] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTW4103QCJJ	AB	DD		B	Block resistor(10KΩ×4) [BR156,BR158,BR160,BR162] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTW4103QCJJ	AB	DD		B	Block resistor(10KΩ×4) [BR164,BR167,BR169,BR177] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTW4103QCJJ	AB	DD		B	Block resistor(10KΩ×4) [BR179,BR205,BR206] ﾌﾞﾛｯｸﾃｲｺｳ
30	RMPTW4470QCJJ	AB	DD		B	Block resistor(47Ω×4 1/32W ±5%) [BR19,BR20,BR21] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTW4470QCJJ	AB	DD		B	Block resistor(47Ω×4 1/32W ±5%) [BR22,BR23] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTW4470QCJJ	AB	DD		B	Block resistor(47Ω×4 1/32W ±5%) [BR24,BR37,BR38] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTW4470QCJJ	AB	DD		B	Block resistor(47Ω×4 1/32W ±5%) [BR43,BR44] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTW4470QCJJ	AB	DD		B	Block resistor(47Ω×4 1/32W ±5%) [BR45,BR46,BR47] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTW4470QCJJ	AB	DD		B	Block resistor(47Ω×4 1/32W ±5%) [BR48,BR49] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTW4470QCJJ	AB	DD		B	Block resistor(47Ω×4 1/32W ±5%) [BR50,BR51,BR52] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTW4470QCJJ	AB	DD		B	Block resistor(47Ω×4 1/32W ±5%) [BR55,BR56] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTW4470QCJJ	AB	DD		B	Block resistor(47Ω×4 1/32W ±5%) [BR59,BR60,BR67] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTW4470QCJJ	AB	DD		B	Block resistor(47Ω×4 1/32W ±5%) [BR69,BR71] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTW4470QCJJ	AB	DD		B	Block resistor(47Ω×4 1/32W ±5%) [BR73,BR75,BR77] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTW4470QCJJ	AB	DD		B	Block resistor(47Ω×4 1/32W ±5%) [BR78,BR81] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTW4470QCJJ	AB	DD		B	Block resistor(47Ω×4 1/32W ±5%) [BR82,BR86,BR87] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTW4470QCJJ	AB	DD		B	Block resistor(47Ω×4 1/32W ±5%) [BR88,BR89] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTW4470QCJJ	AB	DD		B	Block resistor(47Ω×4 1/32W ±5%) [BR91,BR97] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTW4470QCJJ	AB	DD		B	Block resistor(47Ω×4 1/32W ±5%) [BR98,BR99] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTW4470QCJJ	AB	DD		B	Block resistor(47Ω×4 1/32W ±5%) [BR100,BR105] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTW4470QCJJ	AB	DD		B	Block resistor(47Ω×4 1/32W ±5%) [BR106,BR107] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTW4470QCJJ	AB	DD		B	Block resistor(47Ω×4 1/32W ±5%) [BR118,BR125] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTW4470QCJJ	AB	DD		B	Block resistor(47Ω×4 1/32W ±5%) [BR126,BR127] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTW4470QCJJ	AB	DD		B	Block resistor(47Ω×4 1/32W ±5%) [BR128,BR129] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTW4470QCJJ	AB	DD		B	Block resistor(47Ω×4 1/32W ±5%) [BR130,BR131] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTW4470QCJJ	AB	DD		B	Block resistor(47Ω×4 1/32W ±5%) [BR133,BR136] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTW4470QCJJ	AB	DD		B	Block resistor(47Ω×4 1/32W ±5%) [BR138,BR141] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTW4470QCJJ	AB	DD		B	Block resistor(47Ω×4 1/32W ±5%) [BR143,BR145] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTW4470QCJJ	AB	DD		B	Block resistor(47Ω×4 1/32W ±5%) [BR147,BR149] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTW4470QCJJ	AB	DD		B	Block resistor(47Ω×4 1/32W ±5%) [BR151,BR153] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTW4470QCJJ	AB	DD		B	Block resistor(47Ω×4 1/32W ±5%) [BR155,BR157] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTW4470QCJJ	AB	DD		B	Block resistor(47Ω×4 1/32W ±5%) [BR159,BR161] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTW4470QCJJ	AB	DD		B	Block resistor(47Ω×4 1/32W ±5%) [BR163,BR165] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTW4470QCJJ	AB	DD		B	Block resistor(47Ω×4 1/32W ±5%) [BR170,BR171] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTW4470QCJJ	AB	DD		B	Block resistor(47Ω×4 1/32W ±5%) [BR172,BR173] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTW4470QCJJ	AB	DD		B	Block resistor(47Ω×4 1/32W ±5%) [BR174,BR175] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTW4470QCJJ	AB	DD		B	Block resistor(47Ω×4 1/32W ±5%) [BR176] ﾌﾞﾛｯｸﾃｲｺｳ

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NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION
		Ex.	Ja.			
30	RMPTW4470QCJJ	AB	DD		B	Block resistor(47Ω×4 1/32W ±5%) [BR180,BR181] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTW4470QCJJ	AB	DD		B	Block resistor(47Ω×4 1/32W ±5%) [BR182,BR183] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTW4470QCJJ	AB	DD		B	Block resistor(47Ω×4 1/32W ±5%) [BR184,BR200] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTW4470QCJJ	AB	DD		B	Block resistor(47Ω×4 1/32W ±5%) [BR201,BR202,BR203] ﾌﾞﾛｯｸﾃｲｺｳ
⚠ 31	UBATi0014FCZZ	AN	EQ		B	Battery(CR2477-H01) (AR-C260F/C260FP)[BT1] ﾊﾞｯﾃﾘｰ
32	VCCCCZ1HH151J	AC	DD		C	Capacitor(150pF/50V)(GRM36CH151J50PT) [C64,C65,C66] ｺﾝﾃﾞﾝｻｰ
	VCCCCZ1HH151J	AC	DD		C	Capacitor(150pF/50V)(GRM36CH151J50PT) [C67,C103] ｺﾝﾃﾞﾝｻｰ
	VCCCCZ1HH151J	AC	DD		C	Capacitor(150pF/50V)(GRM36CH151J50PT) [C104,C118,C119] ｺﾝﾃﾞﾝｻｰ
33	VCCCCZ1HH220J	AA	DD		C	Capacitor(50WV 22pF) [C33,C34] ｺﾝﾃﾞﾝｻｰ
34	VCCCCZ1HH270J	AA	DD		C	Capacitor(27P 50V 1005) [C148,C150,C151] ｺﾝﾃﾞﾝｻｰ
	VCCCCZ1HH270J	AA	DD		C	Capacitor(27P 50V 1005) [C153] ｺﾝﾃﾞﾝｻｰ
	VCCCCZ1HH270J	AA	DD		C	Capacitor(27P 50V 1005) [C60,C62] ｺﾝﾃﾞﾝｻｰ
35	VCEAGA1AW107M	AB	DD		C	Capacitor(10WV 100µF) [C46,C81,C112,C117,C154] ｺﾝﾃﾞﾝｻｰ
	VCEAGA1AW107M	AB	DD		C	Capacitor(10WV 100µF) [C155,C182,C233,C241,C254] ｺﾝﾃﾞﾝｻｰ
	VCEAGA1AW107M	AB	DD		C	Capacitor(10WV 100µF) [C272,C273,C295,C316] ｺﾝﾃﾞﾝｻｰ
36	VCEAGA1AW476M	AA	DD		C	Capacitor(10WV 47µF) [C1,C6,C13,C30,C83,C94] ｺﾝﾃﾞﾝｻｰ
	VCEAGA1AW476M	AA	DD		C	Capacitor(10WV 47µF) [C218,C219] ｺﾝﾃﾞﾝｻｰ
	VCEAGA1AW476M	AA	DD		C	Capacitor(10WV 47µF) (AR-C260F/C260FP)[C361,C367] ｺﾝﾃﾞﾝｻｰ
	VCEAGA1AW476M	AA	DD		C	Capacitor(10WV 47µF) [C1025,C1035] ｺﾝﾃﾞﾝｻｰ
37	VCEAZA1AW477M	AC	DD		C	Capacitor(10WV 470µF) [C5,C8,C12,C56,C157,C177] ｺﾝﾃﾞﾝｻｰ
38	VCKYCY1EB104K	AG	DX		C	Capacitor(25WV 0.1µF(1608:B)) (Japan only) [C287,C288] ｺﾝﾃﾞﾝｻｰ
	VCKYCY1EB104K	AG	DX		C	Capacitor(25WV 0.1µF(1608:B)) (Japan only) [C292,C307,C308] ｺﾝﾃﾞﾝｻｰ
	VCKYCY1EB104K	AG	DX		C	Capacitor(25WV 0.1µF(1608:B)) [C53] ｺﾝﾃﾞﾝｻｰ
	VCKYCY1EB104K	AG	DX		C	Capacitor(25WV 0.1µF(1608:B)) (AR-C260F/C260FP) [C196,C197,C205] ｺﾝﾃﾞﾝｻｰ
	VCKYCY1EB104K	AG	DX		C	Capacitor(25WV 0.1µF(1608:B)) (AR-C260F/C260FP) [C217,C220] ｺﾝﾃﾞﾝｻｰ
	VCKYCY1EB104K	AG	DX		C	Capacitor(25WV 0.1µF(1608:B)) (AR-C260F/C260FP) [C225,C226,C229] ｺﾝﾃﾞﾝｻｰ
	VCKYCY1EB104K	AG	DX		C	Capacitor(25WV 0.1µF(1608:B)) (AR-C260F/C260FP) [C232,C244] ｺﾝﾃﾞﾝｻｰ
39	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C10,C11,C29,C37,C38,C40] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C41,C50,C57,C59,C61,C63] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C68,C70,C71,C72,C73,C74] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C75,C76,C77,C78,C80,C82] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C84,C89,C90,C91,C93,C96] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C99,C100,C101,C102,C105] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C106,C107,C108,C109,C113] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C114,C116,C120,C121,C122] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C124,C125,C128,C129,C130] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C131,C132,C133,C134,C136] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C137,C140,C141,C142,C143] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C144,C147,C149,C152,C156] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C158,C159,C160,C161,C162] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C163,C164,C167,C168,C169] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C171,C172,C173,C175,C176] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C178,C180,C181,C183,C184] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C188,C189,C190,C192,C193] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C194,C195,C198,C199,C200] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C201,C202,C206,C207,C208] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C209,C210,C211,C212,C213] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C214,C215,C222,C223,C234] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C235,C236,C237,C238,C239] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C240,C248,C251,C252,C253] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C257,C258,C259,C260,C261] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C262,C264,C265,C266,C267] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C268,C269,C270,C274,C275] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C276,C277,C278,C281,C282] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C284,C285,C286,C289,C290] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C291,C294,C296,C297,C298] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C299,C300,C301,C302,C303] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C304,C309,C310,C317,C318] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C319,C320,C323,C324,C325] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C329,C333,C334,C335,C336] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C344,C347,C348,C351] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C355,C356,C357,C364,C368] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C1022,C1026,C1027,C1028] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C1029,C1030,C1031,C1032] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C1033,C1034,C1047,C1050] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C1051,C1052,C1053] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) (AR-C260F/C260FP) [C92,C135,C165] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) (AR-C260F/C260FP)[C216,C224] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) (AR-C260F/C260FP) [C250,C279,C280] ｺﾝﾃﾞﾝｻｰ
40	VCKYCZ1EB103K	AB	DD		C	Capacitor(0.01µF 25V 1005) [C15,C19,C23,C98] ｺﾝﾃﾞﾝｻｰ
41	VCKYCZ1HB102K	AA	DD		C	Capacitor(50WV 1000pF) [C17,C21,C25,C36,C79,C110] ｺﾝﾃﾞﾝｻｰ

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NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION
		Ex.	Ja.			
41	VCKYCZ1HB102K	AA	DD		C	Capacitor(50WV 1000pF) [C174,C293,C312,C313,C322] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1HB102K	AA	DD		C	Capacitor(50WV 1000pF) [C327,C332,C337,C338,C339] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1HB102K	AA	DD		C	Capacitor(50WV 1000pF) [C352,C353,C354,C358,C359] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1HB102K	AA	DD		C	Capacitor(50WV 1000pF) [C360,C365,C1024,C1036] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1HB102K	AA	DD		C	Capacitor(50WV 1000pF) [C1037,C1056] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1HB102K	AA	DD		C	Capacitor(50WV 1000pF) (AR-C260F/C260FP) [C203,C230] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1HB102K	AA	DD		C	Capacitor(50WV 1000pF) (AR-C260F/C260FP)[C231] ｺﾝﾃﾞﾝｻｰ
42	VCKYCZ1HB471K	AA	DD		C	Capacitor(50WV 470pF) [C14,C18,C22,C95,C314] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1HB471K	AA	DD		C	Capacitor(50WV 470pF) [C315] ｺﾝﾃﾞﾝｻｰ
43	VHD1SS355／／－1	AB	DJ		B	Diode(1SS355) [D100,D101] ﾀﾞｲｵｰﾄﾞ
	VHD1SS355／／－1	AB	DJ		B	Diode(1SS355) (AR-C260F/C260FP)[D37,D40] ﾀﾞｲｵｰﾄﾞ
44	VHDDAN202U／－1	AB	DD		B	Diode(DAN202U) [D9,D12,D16,D17,D18,D28] ﾀﾞｲｵｰﾄﾞ
	VHDDAN202U／－1	AB	DD		B	Diode(DAN202U) [D29,D30,D31,D32,D33,D34] ﾀﾞｲｵｰﾄﾞ
	VHDDAN202U／－1	AB	DD		B	Diode(DAN202U) [D35,D36,D41,D42,D43,D45] ﾀﾞｲｵｰﾄﾞ
	VHDDAN202U／－1	AB	DD		B	Diode(DAN202U) (AR-C260F/C260FP)[D4] ﾀﾞｲｵｰﾄﾞ
45	VHDDAP202U／－1	AB	DD		B	Diode(DAP202U) [D8,D11,D13,D14,D15,D19] ﾀﾞｲｵｰﾄﾞ
	VHDDAP202U／－1	AB	DD		B	Diode(DAP202U) [D20,D21,D22,D23,D24,D25] ﾀﾞｲｵｰﾄﾞ
	VHDDAP202U／－1	AB	DD		B	Diode(DAP202U) [D26,D27,D38,D39,D44,D46] ﾀﾞｲｵｰﾄﾞ
	VHDDAP202U／－1	AB	DD		B	Diode(DAP202U) (AR-C260F/C260FP)[D2,D5] ﾀﾞｲｵｰﾄﾞ
46	VHDRB451F／／－1	AD	DS		B	Diode(RB451F) (AR-C260F/C260FP)[D3] ﾀﾞｲｵｰﾄﾞ
47	VHi23S09SC＋－1	AV	FG		B	ZDBUFFER(CY23S09SC-1) [IC34] IC
48	VHi58C256AP－1	BB	GD		B	EEPROM(HN58V256AP-10) [IC50] EEPROM
50	VHi65949P03－1	BE	GN		B	ASIC(uPD65949GD-P03-LML)(IOASIC) [IC56] IC
51	VHi74LCX14MTC	AE	DJ		B	IC(74LCX14MTC) [IC21,IC23,IC29,IC66,IC67] IC
	VHi74LCX14MTC	AE	DJ		B	IC(74LCX14MTC) [IC68] IC
	VHi74LCX14MTC	AE	DJ		B	IC(74LCX14MTC) (AR-C260F/C260FP)[IC43] IC
52	VHi74LCX244MT	AM	DX		B	IC(74LCX244MT) [IC2,IC3,IC4,IC7,IC8,IC13] IC
	VHi74LCX244MT	AM	DX		B	IC(74LCX244MT) [IC17,IC18,IC26,IC27,IC35] IC
	VHi74LCX244MT	AM	DX		B	IC(74LCX244MT) [IC53,IC69,IC72,IC73] IC
	VHi74LCX244MT	AM	DX		B	IC(74LCX244MT) [IC74,IC75,IC76,IC102] IC
	VHi74LCX244MT	AM	DX		B	IC(74LCX244MT) [IC103,IC104,IC105,IC106] IC
	VHi74LCX244MT	AM	DX		B	IC(74LCX244MT) [IC107,IC108] IC
53	VHi74LCX245MT	AM	DX		B	IC(74LCX245MT) [IC57,IC58,IC59,IC60,IC61] IC
54	VHi85672011－1	BV	RB		B	ASIC(uPD85672S1-011-F6)(ICUASIC) [IC33] IC
55	VHi90CF364A－1	AU	FG		B	LVDSIC(DS90CF364AMTD) [IC32] IC
56	VHiCY25811S－1	AN	EG		B	SSIC(CY25811SC) [IC12] IC
58	VHiCY25814S－1	AN	EG		B	SSIC(CY25814SC) [IC39,IC37] IC
59	VHiHi207ECB－1	AN	EQ		B	RS232CDRIVER(HIN207ECB) (Japan only) [IC52] IC
60	VHiLCX574MT－1	AF	DS		B	LOGIC(74LCX574) [IC28] IC
61	VHiLCX74MTC－1	AE	DJ		B	LOGIC(74LCX74) [IC1] IC
62	VHiLHF80J01－1	AX	FG		B	FLASH ROM(F_LH28F800BJE-PTTL90) (AR-C260F/C260FP) [IC30,IC42] FLASH ROM
63	VHiLM393D＋＋－1	AE	DJ		B	COMPARATOR(LM393D [IC78] IC
64	VHiM3032ATC－1	AT	EZ	N	B	CPLD(EPM3032ATC44-10) [IC109] IC
65	VHiM51957BFP1	AH	DX		B	IC(M51957BFP1) [IC22] IC
66	VHiMAX3225E－1	AT	EZ		B	IC(MAX3225E) (AR-C260F/C260FP)[IC45,IC44] IC
67	VHiNJU6356E－1	AK	DX		B	IC(NJU6356E) [IC63] IC
68	VHiPM2500＋＋－1	BP	LP		B	ASIC(PM-2500) [IC48] IC
69	VHiSD8M16L1－1	BB	GD		B	SDRAM(128x16SDRAM) [IC55] SDRAM
70	VHiSH770910－1	BH	GX		B	IC(SH770910) [IC54] IC
71	VHiSR1024－7LL	AU	EZ		B	SRAM(F_UT62L1024LC-70LL) (AR-C260F/C260FP) [IC65,IC64] SRAM
72	VHPLT1F67AF－1	AC	DJ		B	LED(LT1F67AF) [SLED1,SLED2] LED
	VHPLT1F67AF－1	AC	DJ		B	LED(LT1F67AF) [SLED3] LED
73	VRS－CZ1JD000J	AA	DD		C	Resistor(1/16W 0Ω ±5%) [R3,R6,R9,R13,R37,R40,R64] 抵抗
	VRS－CZ1JD000J	AA	DD		C	Resistor(1/16W 0Ω ±5%) [R85,R104,R105,R118,R155] 抵抗
	VRS－CZ1JD000J	AA	DD		C	Resistor(1/16W 0Ω ±5%) [R156,R162,R163,R175,R178] 抵抗
	VRS－CZ1JD000J	AA	DD		C	Resistor(1/16W 0Ω ±5%) [R188,R192,R246,R272,R306] 抵抗
	VRS－CZ1JD000J	AA	DD		C	Resistor(1/16W 0Ω ±5%) [R307,R308,R309,R311,R312] 抵抗
	VRS－CZ1JD000J	AA	DD		C	Resistor(1/16W 0Ω ±5%) [R317,R318,R321,R330,R331] 抵抗
	VRS－CZ1JD000J	AA	DD		C	Resistor(1/16W 0Ω ±5%) [R343,R344,R353,R356,R357] 抵抗
	VRS－CZ1JD000J	AA	DD		C	Resistor(1/16W 0Ω ±5%) [R367,R371,R384,R420,R424] 抵抗
	VRS－CZ1JD000J	AA	DD		C	Resistor(1/16W 0Ω ±5%) [R457,R458,R460,R461,R478] 抵抗
	VRS－CZ1JD000J	AA	DD		C	Resistor(1/16W 0Ω ±5%) [R557,R558,R571,R602,R678] 抵抗
	VRS－CZ1JD000J	AA	DD		C	Resistor(1/16W 0Ω ±5%) [R687,R704,R902,R903] 抵抗
	VRS－CZ1JD000J	AA	DD		C	Resistor(1/16W 0Ω ±5%) [R905,R907,R1016] 抵抗
	VRS－CZ1JD000J	AA	DD		C	Resistor(1/16W 0Ω ±5%) [R1022,R1040,R1051,R1062] 抵抗
	VRS－CZ1JD000J	AA	DD		C	Resistor(1/16W 0Ω ±5%) [R1085,R1092,R1096,R1098] 抵抗
	VRS－CZ1JD000J	AA	DD		C	Resistor(1/16W 0Ω ±5%) [R1100,R1102,R1104,R1111] 抵抗
	VRS－CZ1JD000J	AA	DD		C	Resistor(1/16W 0Ω ±5%) (AR-C260F/C260FP) [R191,R423,R431] 抵抗
	VRS－CZ1JD000J	AA	DD		C	Resistor(1/16W 0Ω ±5%) (AR-C260F/C260FP) [R432,R436] 抵抗
	VRS－CZ1JD000J	AA	DD		C	Resistor(1/16W 0Ω ±5%) (AR-C260F/C260FP) [R437,R449,R450] 抵抗
	VRS－CZ1JD000J	AA	DD		C	Resistor(1/16W 0Ω ±5%) (AR-C260F/C260FP) [R462,R463] 抵抗

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		Ex.	Ja.			
73	VRS-CZ1JD000J	AA	DD		C	Resistor(1/16W 0Ω ±5%) (AR-C260F/C260FP) [R488,R489,R523] 抵抗
	VRS-CZ1JD000J	AA	DD		C	Resistor(1/16W 0Ω ±5%) (AR-C260F/C260FP) [R790,R1010] 抵抗
	VRS-CZ1JD000J	AA	DD		C	Resistor(1/16W 0Ω ±5%) [R2,R5,R8,R221] 抵抗
	VRS-CZ1JD000J	AA	DD		C	Resistor(1/16W 0Ω ±5%) (Except Japan) [R1083] 抵抗
74	VRS-CZ1JD100J	AA	DD		C	Resistor(1/16W 10Ω ±5%) [R136,R137,R149,R150,R227] 抵抗
	VRS-CZ1JD100J	AA	DD		C	Resistor(1/16W 10Ω ±5%) [R228,R253,R257,R258,R287] 抵抗
	VRS-CZ1JD100J	AA	DD		C	Resistor(1/16W 10Ω ±5%) [R288,R293,R296,R301,R316] 抵抗
	VRS-CZ1JD100J	AA	DD		C	Resistor(1/16W 10Ω ±5%) [R375,R440,R441,R447] 抵抗
75	VRS-CZ1JD101J	AA	DD		C	Resistor(1/16W 100Ω ±5%) [R10,R12,R32,R34,R38,R41] 抵抗
	VRS-CZ1JD101J	AA	DD		C	Resistor(1/16W 100Ω ±5%) [R42,R43,R44,R45,R68,R70] 抵抗
	VRS-CZ1JD101J	AA	DD		C	Resistor(1/16W 100Ω ±5%) [R97,R108,R110,R119,R120] 抵抗
	VRS-CZ1JD101J	AA	DD		C	Resistor(1/16W 100Ω ±5%) [R121,R122,R132,R176,R213] 抵抗
	VRS-CZ1JD101J	AA	DD		C	Resistor(1/16W 100Ω ±5%) [R214,R215,R216,R220,R222] 抵抗
	VRS-CZ1JD101J	AA	DD		C	Resistor(1/16W 100Ω ±5%) [R266,R267,R268,R271,R276] 抵抗
	VRS-CZ1JD101J	AA	DD		C	Resistor(1/16W 100Ω ±5%) [R279,R313,R319,R320,R332] 抵抗
	VRS-CZ1JD101J	AA	DD		C	Resistor(1/16W 100Ω ±5%) [R334,R349,R364,R368,R388] 抵抗
	VRS-CZ1JD101J	AA	DD		C	Resistor(1/16W 100Ω ±5%) [R389,R390,R391,R392,R393] 抵抗
	VRS-CZ1JD101J	AA	DD		C	Resistor(1/16W 100Ω ±5%) [R1012,R1013,R1015] 抵抗
	VRS-CZ1JD101J	AA	DD		C	Resistor(1/16W 100Ω ±5%) [R1052,R1053,R1077,R1078] 抵抗
	VRS-CZ1JD101J	AA	DD		C	Resistor(1/16W 100Ω ±5%) [R1081] 抵抗
76	VRS-CZ1JD102J	AA	DD		C	Resistor(1/16W 1KΩ ±5%) [R145,R166] 抵抗
	VRS-CZ1JD102J	AA	DD		C	Resistor(1/16W 1KΩ ±5%) [R232,R247,R295,R335] 抵抗
	VRS-CZ1JD102J	AA	DD		C	Resistor(1/16W 1KΩ ±5%) [R339,R348,R528,R595,R611] 抵抗
	VRS-CZ1JD102J	AA	DD		C	Resistor(1/16W 1KΩ ±5%) [R618,R643,R644,R648,R649] 抵抗
	VRS-CZ1JD102J	AA	DD		C	Resistor(1/16W 1KΩ ±5%) [R676,R684,R685,R686,R689] 抵抗
	VRS-CZ1JD102J	AA	DD		C	Resistor(1/16W 1KΩ ±5%) [R690,R708,R726,R727,R730] 抵抗
	VRS-CZ1JD102J	AA	DD		C	Resistor(1/16W 1KΩ ±5%) [R731,R732,R742,R744,R752] 抵抗
	VRS-CZ1JD102J	AA	DD		C	Resistor(1/16W 1KΩ ±5%) [R753,R754,R755,R756,R758] 抵抗
	VRS-CZ1JD102J	AA	DD		C	Resistor(1/16W 1KΩ ±5%) [R759,R760,R767,R768] 抵抗
	VRS-CZ1JD102J	AA	DD		C	Resistor(1/16W 1KΩ ±5%) [R802,R803,R804,R1005] 抵抗
	VRS-CZ1JD102J	AA	DD		C	Resistor(1/16W 1KΩ ±5%) [R1006,R1008,R1023] 抵抗
	VRS-CZ1JD102J	AA	DD		C	Resistor(1/16W 1KΩ ±5%) [R1028,R1029,R1030,R1031] 抵抗
	VRS-CZ1JD102J	AA	DD		C	Resistor(1/16W 1KΩ ±5%) [R1036,R1074,R1082,R1109] 抵抗
	VRS-CZ1JD102J	AA	DD		C	Resistor(1/16W 1KΩ ±5%) [R1115,R1116,R1117,R1121] 抵抗
	VRS-CZ1JD102J	AA	DD		C	Resistor(1/16W 1KΩ ±5%) [R124] 抵抗
	VRS-CZ1JD102J	AA	DD		C	Resistor(1/16W 1KΩ ±5%) (AR-C260F/C260FP) [R421,R471,R472] 抵抗
	VRS-CZ1JD102J	AA	DD		C	Resistor(1/16W 1KΩ ±5%) (AR-C260F/C260FP) [R795,R1009] 抵抗
77	VRS-CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) [R11,R28,R29,R33,R35,R46] 抵抗
	VRS-CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) [R116,R168,R169,R170,R172] 抵抗
	VRS-CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) [R174,R180,R233,R235,R238] 抵抗
	VRS-CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) [R241,R265,R280,R286,R290] 抵抗
	VRS-CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) [R291,R303,R314,R333,R350] 抵抗
	VRS-CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) [R362,R363,R373,R387,R394] 抵抗
	VRS-CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) [R415,R419,R428,R434,R435] 抵抗
	VRS-CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) [R442,R446,R448,R456,R468] 抵抗
	VRS-CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) [R474,R475,R476,R477,R480] 抵抗
	VRS-CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) [R481,R482,R483,R496,R497] 抵抗
	VRS-CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) [R498,R499,R500,R501,R546] 抵抗
	VRS-CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) [R567,R568,R579,R580,R586] 抵抗
	VRS-CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) [R587,R594,R614,R615,R616] 抵抗
	VRS-CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) [R617,R621,R622,R623,R624] 抵抗
	VRS-CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) [R627,R628,R629,R636,R637] 抵抗
	VRS-CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) [R638,R639,R645,R673,R679] 抵抗
	VRS-CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) [R680,R681,R688,R696] 抵抗
	VRS-CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) (AR-C260/C260S/C260M) [R703] 抵抗
	VRS-CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) (AR-C260F/C260FP)[R702] 抵抗
	VRS-CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) [R705,R706,R707,R710,R714] 抵抗
	VRS-CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) [R735,R736,R737,R738,R739] 抵抗
	VRS-CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) (AR-C260/C260S/C260M) [R740] 抵抗
	VRS-CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) (AR-C260F/C260FP) [R741,R1087] 抵抗
	VRS-CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) [R743,R745,R746,R747] 抵抗
	VRS-CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) [R748,R749,R750,R751,R785] 抵抗
	VRS-CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) [R796,R800,R801] 抵抗
	VRS-CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) [R1014,R1032,R1033,R1034] 抵抗
	VRS-CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) [R1035,R1037,R1055,R1056] 抵抗
	VRS-CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) [R1063,R1064,R1066,R1067] 抵抗
	VRS-CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) [R1068,R1069,R1070,R1071] 抵抗
	VRS-CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) [R1072,R1075,R1076] 抵抗
	VRS-CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) [R1089,R1112,R1113,R1114] 抵抗
	VRS-CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) [R1119] 抵抗
	VRS-CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) (AR-C260F/C260FP) [R422,R433,R438] 抵抗

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NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION
		Ex.	Ja.			
77	VRS－CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) (AR-C260F/C260FP) [R466,R473] 抵抗
	VRS－CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) (AR-C260F/C260FP) [R484,R485,R494] 抵抗
	VRS－CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) (Except Japan) [R1073,R1079,R1080] 抵抗
78	VRS－CZ1JD105J	AA	DD		C	Resistor(1/16W 1.0MΩ ±5%) [R79,R125,R336] 抵抗
	VRS－CZ1JD105J	AA	DD		C	Resistor(1/16W 1.0MΩ ±5%) [R340,R1054] 抵抗
79	VRS－CZ1JD121J	AA	DD		C	Resistor(1/16W 120Ω ±5%) [R325,R326,R590] 抵抗
80	VRS－CZ1JD151J	AA	DD		C	Resistor(1/16W 150Ω ±5%) [R694] 抵抗
81	VRS－CZ1JD152J	AA	DD		C	Resistor(1/16W 1.5KΩ ±5%) [R83,R560] 抵抗
	VRS－CZ1JD152J	AA	DD		C	Resistor(1/16W 1.5KΩ ±5%) [R563,R574,R575,R786] 抵抗
82	VRS－CZ1JD182J	AA	DD		C	Resistor(1/16W 1.8KΩ ±5%) [R77] 抵抗
83	VRS－CZ1JD202J	AA	DD		C	Resistor(1/16W 2.0KΩ ±5%) [R682] 抵抗
84	VRS－CZ1JD271J	AA	DD		C	Resistor(1/16W 270Ω ±5%) [R591] 抵抗
	VRS－CZ1JD271J	AA	DD		C	Resistor(1/16W 270JΩ ±5%) [R78] 抵抗
85	VRS－CZ1JD272J	AA	DD		C	Resistor(1/16W 2.7KΩ ±5%) [R82] 抵抗
86	VRS－CZ1JD333J	AA	DD		C	Resistor(1/16W 33KΩ ±5%) (AR-C260F/C260FP)[R791] 抵抗
87	VRS－CZ1JD470J	AA	DD		C	Resistor(1/16W 47Ω ±5%) [R54,R55,R56,R59,R60,R61] 抵抗
	VRS－CZ1JD470J	AA	DD		C	Resistor(1/16W 47Ω ±5%) [R73,R74,R75,R128,R129] 抵抗
	VRS－CZ1JD470J	AA	DD		C	Resistor(1/16W 47Ω ±5%) [R130,R131,R159,R160,R161] 抵抗
	VRS－CZ1JD470J	AA	DD		C	Resistor(1/16W 47Ω ±5%) [R181,R182,R183,R195,R197] 抵抗
	VRS－CZ1JD470J	AA	DD		C	Resistor(1/16W 47Ω ±5%) [R199,R200,R201,R203,R204] 抵抗
	VRS－CZ1JD470J	AA	DD		C	Resistor(1/16W 47Ω ±5%) [R217,R218,R219,R223,R239] 抵抗
	VRS－CZ1JD470J	AA	DD		C	Resistor(1/16W 47Ω ±5%) [R242,R248,R262,R263,R264] 抵抗
	VRS－CZ1JD470J	AA	DD		C	Resistor(1/16W 47Ω ±5%) [R270,R275,R277,R278,R304] 抵抗
	VRS－CZ1JD470J	AA	DD		C	Resistor(1/16W 47Ω ±5%) [R310,R328,R346,R360,R361] 抵抗
	VRS－CZ1JD470J	AA	DD		C	Resistor(1/16W 47Ω ±5%) [R372,R379,R383,R385,R395] 抵抗
	VRS－CZ1JD470J	AA	DD		C	Resistor(1/16W 47Ω ±5%) [R396,R397,R398,R399,R406] 抵抗
	VRS－CZ1JD470J	AA	DD		C	Resistor(1/16W 47Ω ±5%) [R416,R418,R429,R443,R444] 抵抗
	VRS－CZ1JD470J	AA	DD		C	Resistor(1/16W 47Ω ±5%) [R445,R469,R503,R504,R505] 抵抗
	VRS－CZ1JD470J	AA	DD		C	Resistor(1/16W 47Ω ±5%) [R506,R507,R508,R509,R510] 抵抗
	VRS－CZ1JD470J	AA	DD		C	Resistor(1/16W 47Ω ±5%) [R511,R512,R513,R518,R519] 抵抗
	VRS－CZ1JD470J	AA	DD		C	Resistor(1/16W 47Ω ±5%) [R520,R521,R537,R538,R539] 抵抗
	VRS－CZ1JD470J	AA	DD		C	Resistor(1/16W 47Ω ±5%) [R540,R541,R542,R543,R544] 抵抗
	VRS－CZ1JD470J	AA	DD		C	Resistor(1/16W 47Ω ±5%) [R545,R547,R548,R549,R550] 抵抗
	VRS－CZ1JD470J	AA	DD		C	Resistor(1/16W 47Ω ±5%) [R551,R552,R553,R554,R565] 抵抗
	VRS－CZ1JD470J	AA	DD		C	Resistor(1/16W 47Ω ±5%) [R566,R569,R570,R577,R578] 抵抗
	VRS－CZ1JD470J	AA	DD		C	Resistor(1/16W 47Ω ±5%) [R581,R585,R593,R599,R600] 抵抗
	VRS－CZ1JD470J	AA	DD		C	Resistor(1/16W 47Ω ±5%) [R603,R606,R607,R608,R609] 抵抗
	VRS－CZ1JD470J	AA	DD		C	Resistor(1/16W 47Ω ±5%) [R612,R625,R631,R633,R634] 抵抗
	VRS－CZ1JD470J	AA	DD		C	Resistor(1/16W 47Ω ±5%) [R641,R642,R650,R653,R654] 抵抗
	VRS－CZ1JD470J	AA	DD		C	Resistor(1/16W 47Ω ±5%) [R655,R656,R657,R659,R660] 抵抗
	VRS－CZ1JD470J	AA	DD		C	Resistor(1/16W 47Ω ±5%) [R661,R662,R667,R668,R669] 抵抗
	VRS－CZ1JD470J	AA	DD		C	Resistor(1/16W 47Ω ±5%) [R670,R671,R674,R691,R692] 抵抗
	VRS－CZ1JD470J	AA	DD		C	Resistor(1/16W 47Ω ±5%) [R693,R695,R709,R711,R712] 抵抗
	VRS－CZ1JD470J	AA	DD		C	Resistor(1/16W 47Ω ±5%) [R713,R715,R716,R717,R718] 抵抗
	VRS－CZ1JD470J	AA	DD		C	Resistor(1/16W 47Ω ±5%) [R719,R720,R721,R722,R723] 抵抗
	VRS－CZ1JD470J	AA	DD		C	Resistor(1/16W 47Ω ±5%) [R724,R725,R728,R729,R733] 抵抗
	VRS－CZ1JD470J	AA	DD		C	Resistor(1/16W 47Ω ±5%) [R765,R772,R773,R774,R775] 抵抗
	VRS－CZ1JD470J	AA	DD		C	Resistor(1/16W 47Ω ±5%) [R776,R778,R780,R781,R782] 抵抗
	VRS－CZ1JD470J	AA	DD		C	Resistor(1/16W 47Ω ±5%) [R783,R784,R1018,R1019] 抵抗
	VRS－CZ1JD470J	AA	DD		C	Resistor(1/16W 47Ω ±5%) [R1020,R1021,R1038,R1039] 抵抗
	VRS－CZ1JD470J	AA	DD		C	Resistor(1/16W 47Ω ±5%) [R1057,R1058,R1059,R1060] 抵抗
	VRS－CZ1JD470J	AA	DD		C	Resistor(1/16W 47Ω ±5%) [R1065,R1090,R1091,R1093] 抵抗
	VRS－CZ1JD470J	AA	DD		C	Resistor(1/16W 47Ω ±5%) [R1094,R1106,R1108] 抵抗
	VRS－CZ1JD470J	AA	DD		C	Resistor(1/16W 47Ω ±5%) (AR-C260F/C260FP) [R514,R515,R516] 抵抗
	VRS－CZ1JD470J	AA	DD		C	Resistor(1/16W 47Ω ±5%) (AR-C260F/C260FP) [R517,R588] 抵抗
	VRS－CZ1JD470J	AA	DD		C	Resistor(1/16W 47Ω ±5%) (AR-C260F/C260FP) [R596,R597,R604] 抵抗
	VRS－CZ1JD470J	AA	DD		C	Resistor(1/16W 47Ω ±5%) (AR-C260F/C260FP) [R658,R663] 抵抗
	VRS－CZ1JD470J	AA	DD		C	Resistor(1/16W 47Ω ±5%) (AR-C260F/C260FP) [R664,R665,R666] 抵抗
	VRS－CZ1JD470J	AA	DD		C	Resistor(1/16W 47Ω ±5%) [R404] 抵抗
88	VRS－CZ1JD471J	AA	DD		C	Resistor(1/16W 470Ω ±5%) [R797] 抵抗
	VRS－CZ1JD471J	AA	DD		C	Resistor(1/16W 470Ω ±5%) [R798,R799] 抵抗
89	VRS－CZ1JD472J	AA	DD		C	Resistor(1/16W 4.7KΩ ±5%) [R788] 抵抗
90	VRS－CZ1JD473J	AA	DD		C	Resistor(1/16W 47KΩ ±5%) [R1084] 抵抗
91	VRS－CZ1JD680J	AA	DD		C	Resistor(1/16W 68JΩ ±5%) [R133,R140,R146,R153,R224] 抵抗
	VRS－CZ1JD680J	AA	DD		C	Resistor(1/16W 68JΩ ±5%) [R231,R254,R261] 抵抗
92	VS2SB1198K／－1	AC	DJ		B	Transistor(2SB1198K) (AR-C260F/C260FP)[Q35] ﾄﾗﾝｼﾞｽﾀｰ
93	VS2SC2412K／－1	AB	DD		B	Transistor(2SC2412K) (AR-C260F/C260FP)[Q36] ﾄﾗﾝｼﾞｽﾀｰ
94	VS2SJ243／／／－1	AD	DJ		B	Transistor(2SJ243) [FET2] ﾄﾗﾝｼﾞｽﾀｰ
	VS2SJ243／／／－1	AD	DJ		B	Transistor(2SJ243) (AR-C260F/C260FP)[FET4] ﾄﾗﾝｼﾞｽﾀｰ
95	VSDTC114YUA－1	AB	DJ		B	Transistor(DTC114YUA) [Q6,Q8,Q9,Q10] ﾄﾗﾝｼﾞｽﾀｰ
	VSDTC114YUA－1	AB	DJ		B	Transistor(DTC114YUA) [Q11,Q12,Q13,Q14,Q15,Q16] ﾄﾗﾝｼﾞｽﾀｰ
	VSDTC114YUA－1	AB	DJ		B	Transistor(DTC114YUA) [Q18,Q20,Q22,Q23,Q24,Q25] ﾄﾗﾝｼﾞｽﾀｰ

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NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION
		Ex.	Ja.			
95	VSDTC114YUA-1	AB	DJ		B	Transistor(DTC114YUA) [Q26,Q27,Q28,Q29,Q30,Q32] ﾄﾗﾝｼﾞｽﾀｰ
	VSDTC114YUA-1	AB	DJ		B	Transistor(DTC114YUA) [Q33,Q34,Q100,Q103,Q104] ﾄﾗﾝｼﾞｽﾀｰ
	VSDTC114YUA-1	AB	DJ		B	Transistor(DTC114YUA) [Q105,Q106,Q107,Q108,Q109] ﾄﾗﾝｼﾞｽﾀｰ
	VSDTC114YUA-1	AB	DJ		B	Transistor(DTC114YUA) [Q110] ﾄﾗﾝｼﾞｽﾀｰ
	VSDTC114YUA-1	AB	DJ		B	Transistor(DTC114YUA) (AR-C260F/C260FP)[Q7] ﾄﾗﾝｼﾞｽﾀｰ
96	QCNCM0923FC10	AE	DS		C	Connector(10Pin) (Except Japan) [CN19] ｺﾈｸﾀ
	(Unit)					(Unit)
901	CPWBN1549DS54	CU	VW	N	E	ICU PWB UNIT (AR-C260S/C260M)[Japan] ICU 基板
	CPWBN1549DS55	CV	VZ	N	E	ICU PWB UNIT (AR-C260F/C260FP)[Japan] ICU 基板
	CPWBN1549DS57	CU	VW	N	E	ICU PWB UNIT (AR-C260/C260M)[Except Japan] ICU 基板

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NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION
		Ex.	Ja.			
1	QCNCM1171FCZZ	AE	DS		C	Connector(B6B-PH-SM3-TB) [CN2] ｺﾈｸﾀ
3	QSW-P0005QSZZ	AC	DJ		B	Tact switch(B3F-6102) [SW1,SW2,SW3,SW4,SW5] ﾀｸﾄ ｽｲｯﾁ
	QSW-P0005QSZZ	AC	DJ		B	Tact switch(B3F-6102) [SW6,SW7,SW9,SW10,SW11] ﾀｸﾄ ｽｲｯﾁ
	QSW-P0005QSZZ	AC	DJ		B	Tact switch(B3F-6102) [SW12,SW17,SW18,SW19,SW20] ﾀｸﾄ ｽｲｯﾁ
	QSW-P0005QSZZ	AC	DJ		B	Tact switch(B3F-6102) [SW21] ﾀｸﾄ ｽｲｯﾁ
4	QSW-P0469FCZZ	AD	DS		B	Push switch(SKHWAC) [SW8,SW13,SW14,SW15,SW16] ﾌﾟｯｼｭｽｲｯﾁ
5	RALMB1002LCZZ	AE	DS		B	Alarm(PKM13EPY-4000-TF01) [BZ1] ｱﾗｰﾑ
6	VCEAJU1CW476M	AB	DD		C	Capacitor(16WV 47µF) [C1] ｺﾝﾃﾞﾝｻｰ
7	VCKYPU1EB223Z	AB	DD		C	Capacitor(25WV 0.022µF) [C2] ｺﾝﾃﾞﾝｻｰ
8	VHDDSS133//-1	AA	DD		B	Diode(1SS133) [D1,D2] ﾀﾞｲｵｰﾄﾞ
9	VHP1LHLE-002A	AC	DJ		B	LED(Green)(LTL-1LHLE-002A) [LED1,LED2,LED3] LED ﾐﾄﾞﾘ
	VHP1LHLE-002A	AC	DJ		B	LED(Green)(LTL-1LHLE-002A) [LED4,LED5] LED ﾐﾄﾞﾘ
	VHP1LHLE-002A	AC	DJ		B	LED(Green)(LTL-1LHLE-002A) [LED6,LED7,LED8] LED ﾐﾄﾞﾘ
10	VHPLT9400E/-1	AK	EB		B	LED(LT9400E) [LED9,LED10] LED
11	VRD-HT2EY102J	AA	DD		C	Resistor(1/4W 1.0KΩ ±5%) [R17] 抵抗
12	VRD-HT2EY111J	AA	DD		C	Resistor(1/4W 110Ω ±5%) [R3] 抵抗
13	VRD-HT2EY151J	AA	DD		C	Resistor(1/4W 150Ω ±5%) [R4,R6,R7,R8,R9] 抵抗
	VRD-HT2EY151J	AA	DD		C	Resistor(1/4W 150Ω ±5%) [R10,R11,R12,R13,R14] 抵抗
	VRD-HT2EY151J	AA	DD		C	Resistor(1/4W 150Ω ±5%) [R15,R16] 抵抗
14	VRD-HT2EY302J	AA	DD		C	Resistor(1/4W 3.0KΩ ±5%) [R5] 抵抗
15	VRD-HT2EY473J	AA	DD		C	Resistor(1/4W 47KΩ ±5%) [R18,R19,R20,R21,R22] 抵抗
16	VRD-HT2EY682J	AA	DD		C	Resistor(1/4W 6.8KΩ ±5%) [R2] 抵抗
17	VRD-HT2EY911J	AA	DD		C	Resistor(1/4W 910Ω ±5%) [R1] 抵抗
18	VS2SC1740SR-1	AB	DD		B	Transistor(2SC1740SR) [Q1] ﾄﾗﾝｼﾞｽﾀｰ
	(Unit)					
901	CPWBF1525FCE1	BD	GJ	N	E	OPE KEY PWB UNIT 操作ｷｰ基板ﾕﾆｯﾄ

55 ﾄﾞﾗｲﾊﾞｰ基板 (DRIVER PWB)

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION
		Ex.	Ja.			
1	QCNCM0672FCZZ	AB	DD		C	Connector(2pin) [CN9] ｺﾈｸﾀｰ
2	QCNCM0923FC12	AE	DJ		C	Connector(12pin) [CN3] ｺﾈｸﾀｰ
3	QCNCM0923FC3D	AF	DS		C	Connector(B34B-PHDSS)(34pin) [CN2] ｺﾈｸﾀｰ
4	QCNCM0931FCZZ	AF	DS		C	Connector(20pin) [CN8] ｺﾈｸﾀｰ
5	QCNCM1069AC0H	AE	DJ		C	Connector(8pin) [CN6] ｺﾈｸﾀｰ
6	QCNCM1069AC1J	AD	DJ		C	Connector(10pin) [CN5] ｺﾈｸﾀｰ
7	QCNCM7014SC0F	AB	DD		C	Connector(6pin) [CN1,CN4] ｺﾈｸﾀｰ
8	QCNCW0864FCZZ	AG	DX		C	Connector(12pin) [CN7] ｺﾈｸﾀｰ
⚠ 9	QFS-D1327QCZZ	AE	DS		A	Fuse(1.25A 250V) [F1] ﾋｭｰｽﾞ
10	QFSHB0028FCZZ	AC	DJ		C	Fuse holder(TP00351-31) [F1] ﾋｭｰｽﾞﾎﾙﾀﾞ
11	RC-KZ1054CCN2	AB	DD		C	Capacitor(RPE132-906) [C7,C17,C23,C29,C32,C33] ｺﾝﾃﾞﾝｻｰ
12	RMPTW4103QCJJ	AB	DD		B	Block resistor(10KΩ×4) [BR3] ﾌﾞﾛｯｸﾃｲｺｳ
13	RMPTW4473QCJJ	AB	DD		B	Resistor arrey(47kΩ×4 ±5%) [BR1,BR2] ﾃｲｺｳｱﾚｲ
14	VCEAGA1AW476M	AA	DD		C	Capacitor(10WV 47µF) [C30] ｺﾝﾃﾞﾝｻｰ
15	VCEAGA1CW106M	AA	DD		C	Capacitor(16WV 10µF) [C5,C6,C16,C22,C28,C44] ｺﾝﾃﾞﾝｻｰ
16	VCEAGU1VW108M	AE	DX		C	Capacitor(35WV 1000µF) [C31] ｺﾝﾃﾞﾝｻｰ
17	VCEAZA1VW476M	AC	DD		C	Capacitor(35WV 47µF) [C1,C2] ｺﾝﾃﾞﾝｻｰ
18	VCKYCZ1HB102K	AA	DD		C	Capacitor(50WV 1000pF) [C8,C9,C10,C11,C12] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1HB102K	AA	DD		C	Capacitor(50WV 1000pF) [C13,C14,C15] ｺﾝﾃﾞﾝｻｰ
19	VCKYCZ1HB222K	AA	DD		C	Capacitor(50WV 2200pF) [C18,C19,C24,C25,C34,C35] ｺﾝﾃﾞﾝｻｰ
20	VCKYCZ1HB471K	AA	DD		C	Capacitor(50WV 470pF) [C20,C21,C26,C27,C36,C37] ｺﾝﾃﾞﾝｻｰ
21	VHDDSM1D1//-1	AB	DJ		B	Diode(DSM1D1) [D1,D3,D5,D8] ﾀﾞｲｵｰﾄﾞ
22	VHDDSS133//-1	AA	DD		B	Diode(1SS133) [D2,D4,D6,D7,D9] ﾀﾞｲｵｰﾄﾞ
23	VHDRA13++++-1	AD	DJ		B	Diode(RA13) [D10] ﾀﾞｲｵｰﾄﾞ
24	VHiSLA7024MT/	AS	EQ		B	IC(SLA7024MT) [IC4,IC5,IC6] IC
25	VHiSLA7031M-1	AQ	EQ		B	IC(SLA7031M) [IC2] IC
26	VHiVHCT244T-1	AK	DX		B	IC(74VHCT244MTC) [IC1,IC3] IC

55 ﾄﾞﾗｲﾊﾞｰ基板 (DRIVER PWB)

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION
		Ex.	Ja.			
27	VRD-HT2EY242J	AA	DD		C	Resistor(1/4W 2.4KΩ ±5%) [R1,R3,R6,R40] 抵抗
28	VRD-HT2EY104J	AA	DD		C	Resistor(1/4W 100KΩ ±5%) [R5] 抵抗
29	VRD-HT2EY562J	AA	DD		C	Resistor(1/4W 5.6KΩ ±5%) [R2,R4] 抵抗
30	VRS-CZ1JD102J	AA	DD		C	Resistor(1/16W 1KΩ ±5%) [R7,R14,R23,R32] 抵抗
32	VRS-CZ1JD242J	AA	DD		C	Resistor(1/16W 2.4KΩ ±5%) [R16,R17,R25,R26,R34,R35] 抵抗
33	VRS-CZ1JD271J	AA	DD		C	Resistor(1/16W 270Ω ±5%) [R20,R29,R38] 抵抗
34	VRS-CZ1JD473J	AA	DD		C	Resistor(1/16W 47KΩ ±5%) [R12,R13,R21,R22,R30,R31] 抵抗
35	VRS-HT3DA1R0J	AB	DD		C	Resistor(1/16W 2W 1.0Ω ±5%) [R9,R10,R15,R18,R24] 抵抗
	VRS-HT3DA1R0J	AB	DD		C	Resistor(2W 1.0Ω ±5%) [R27,R33,R36] 抵抗
38	VRD-HT2EY473J	AA	DD		C	Resistor(1/4W 47KΩ ±5%) [R39] 抵抗
	(Unit)					
901	CPWBN1545FCE1	BQ	LP	N	E	DRIVER PWB ﾄﾞﾗｲﾊﾞｰ基板ﾕﾆｯﾄ

56 LVDS/INV 基板 (LVDS/INV PWB UNIT)

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION
		Ex.	Ja.			
1	QCNCM0991FCZZ	AG	DX		C	Connector(30FMZ-BT) [CN1] ｺﾈｸﾀｰ
2	QCNCM1172FCZZ	AL	EB	N	C	Connector(S02(8.0)B-BHS-L) [CN3] ｺﾈｸﾀ
3	QCNCW1164FCZZ	AE	DJ	N	C	Connector(04FM-1.0BT) [CN2] ｺﾈｸﾀ
4	QCNCW1165FCZZ	AG	DX	N	C	Connector(20FLS-SM1-TB) [CN4] ｺﾈｸﾀ
⚠ 5	QFS-E1111QCZZ	AF	DS		A	Fuse(217.200(200mA/250V)) [F1] ﾋｭｰｽﾞ
6	QFSHB0028FCZZ	AC	DJ		C	Fuse holder(TP00351-31) ﾋｭｰｽﾞﾎﾙﾀﾞ
7	RCiLF0068FCZZ	AF	DS		C	Coil(C-15389) [L1] ｺｲﾙ
⚠ 8	RTRNZ0511FCZZ	AQ	EQ		B	Transformer(C-15099) [T1] ﾄﾗﾝｽ
9	VCFYJU2JA103K	AC	DD		C	Capacitor(630WV 0.010µF) [C3] ｺﾝﾃﾞﾝｻｰ
10	VCKYCZ1EF223Z	AA	DD		C	Capacitor(0.022µF/50V(1005)) [C1,C2] ｺﾝﾃﾞﾝｻｰ
11	VCKYCZ1HB471K	AA	DD		C	Capacitor(50WV 470pF) [C6] ｺﾝﾃﾞﾝｻｰ
12	VCKYPU3SD150K	AC	DD		C	Capacitor(15pF/3KV)(CC45SL3FD150KYAN) [C4] ｺﾝﾃﾞﾝｻｰ
13	VHH103AT-2/-1	AG	DS		B	Thermistor(103AT-2) [TH1] ｻｰﾐｽﾀｰ
15	VRD-RC2EY103J	AA	DD		C	Resistor(1/4W 10KΩ ±5%) [R9,R10] 抵抗
16	VRS-CZ1JD101J	AA	DD		C	Resistor(1/16W 100Ω ±5%) [R1~R8] 抵抗
17	VS2SD1857A+-1	AB	DJ		B	Transistor(2SD1857ATV2) [Q1,Q2] ﾄﾗﾝｼﾞｽﾀｰ
	(Unit)					
901	CPWBN1560FCE1	BM	HR	N	E	LVDS/INV PWB UNIT LVDS/INV 基板ﾕﾆｯﾄ

57 FAX 電源基板ﾕﾆｯﾄ (FAX AC power supply unit)[AR-C260F/C260FP]

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION
		Ex.	Ja.			
1	0FT23040224//	AD	DJ		C	Angle(TC-92 30X36X1T) [1] 金具
2	0FT23042251//	AP	EQ		C	Fin(AL1 30X30) [2] ﾌｨﾝ
3	0FT23075095//	AP	EQ		C	Connector(B6P-VH) [CN1] ｺﾈｸﾀ
4	0FT23194310//	AU	EZ		B	Thermistor(NTH11D8R0LA) [TH1] ｻﾐｽﾀ
5	0FT23314081//	AU	EZ		B	IC(UPC393C) [Z6] IC
7	0FT23423816//	AC	DJ		C	Screw(M3X8 S NP3 W・SW) [5] 小ﾜｯｼｬ W ｾﾑｽﾈｼﾞ
8	0FT23432963//	AC	DJ		C	Screw(M3X10 S NP3 W.SW) [6] 小ﾜｯｼｬ W ｾﾑｽﾈｼﾞ
9	0FT23485706//	AK	DX		C	Connector(B2B-PH-K-S) [CN4] ｺﾈｸﾀ
10	0FT23559467//	AR	EQ		B	Transistor(2SC3588 HFE=L:K) [Q11] ﾄﾗﾝｼﾞｽﾀ
11	0FT23562328//	AD	DJ		C	Resistor(RSMF2SL 68KΩJ) [R2] 酸化金属被膜抵抗器
12	0FT23562379//	AD	DJ		C	Resistor(RSMF12SL 1ΩJ) [R20] 酸化金属被膜抵抗器
13	0FT23562379//	AD	DJ		C	Resistor(RSMF12SL 1ΩJ) [R83] 酸化金属被膜抵抗器
14	0FT23562549//	AD	DJ		C	Resistor(RSMF12SL 330ΩJ) [R62] 酸化金属被膜抵抗器
15	0FT23562700//	AD	DJ		C	Resistor(RSMF12SL 47KΩJ) [R13] 酸化金属被膜抵抗器
16	0FT23562700//	AD	DJ		C	Resistor(RSMF12SL 47KΩJ) [R14] 酸化金属被膜抵抗器
17	0FT23562727//	AD	DJ		C	Resistor(RSMF12SL 100KΩJ) [R54] 酸化金属被膜抵抗器
18	0FT23562816//	AC	DJ		C	Resistor(RSMF1SL 2.2ΩJ) [R11] 酸化金属被膜抵抗器
19	0FT23562816//	AC	DJ		C	Resistor(RSMF1SL 2.2ΩJ) [R12] 酸化金属被膜抵抗器
20	0FT23562859//	AD	DJ		C	Resistor(RSMF1SL 10ΩJ) [R18] 酸化金属被膜抵抗器
21	0FT23563103//	AD	DJ		C	Resistor(RSMF1SL 47KΩJ) [R4] 酸化金属被膜抵抗器
22	0FT23563103//	AD	DJ		C	Resistor(RSMF1SL 47KΩJ) [R5] 酸化金属被膜抵抗器
23	0FT23563324//	AC	DJ		C	Resistor(RSMF2SL 100ΩJ) [R10] 酸化金属被膜抵抗器
24	0FT23563324//	AC	DJ		C	Resistor(RSMF2SL 100ΩJ) [R19] 酸化金属被膜抵抗器
25	0FT23598977//	AK	DX		C	Connector(B3B-PH-K-S) [CN2] ｺﾈｸﾀ
26	0FT23611329//	AK	DX		C	Capacitor(MMC-104K400) [C6] ﾌｨﾙﾑｺﾝﾃﾞﾝｻ
27	0FT23642925//	AK	DX		B	Reactor(TG0113MADS SK) [L4] ﾘｱｸﾄﾙ
28	0FT23644634//	AK	DX		B	Variable resistor(EVM-4LGA00B13) [RV1] 可変抵抗器
29	0FT23665429//	AU	EZ		B	IC(UPC78M24AHF) [Z2] IC
30	0FT23671666//	AU	EZ		B	IC(UPC78M12AHF) [Z1] IC
31	0FT23697355//	AU	EZ		B	Absorber(ERZV10D471) [NR1] ｻｰｼﾞｱﾌﾞｿｰﾊﾞ
32	0FT23736903//	AX	FG		B	Rectifier(SF10SC4) [RC2] 整流器
33	0FT23462226//	AD	DJ		C	Resistor(RK73K2ATD 470ΩJ) [R34] ﾁｯﾌﾟ抵抗器
34	0FT23462226//	AD	DJ		C	Resistor(RK73K2ATD 470ΩJ) [R65] ﾁｯﾌﾟ抵抗器
35	0FT23462234//	AD	DJ		C	Resistor(RK73K2ATD 1KΩJ) [R30] ﾁｯﾌﾟ抵抗器

57 FAX 電源基板ﾕﾆｯﾄ (FAX AC power supply unit)[AR-C260F/C260FP]

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION
		Ex.	Ja.			
36	0FT23462234／／	AD	DJ		C	Resistor(RK73K2ATD 1KΩJ) [R35] ﾁｯﾌﾟ抵抗器
37	0FT23462234／／	AD	DJ		C	Resistor(RK73K2ATD 1KΩJ) [R41] ﾁｯﾌﾟ抵抗器
38	0FT23462234／／	AD	DJ		C	Resistor(RK73K2ATD 1KΩJ) [R44] ﾁｯﾌﾟ抵抗器
39	0FT23462250／／	AD	DJ		C	Resistor(RK73K2ATD 2.2KΩJ) [R38] ﾁｯﾌﾟ抵抗器
40	0FT23462250／／	AD	DJ		C	Resistor(RK73K2ATD 2.2KΩJ) [R39] ﾁｯﾌﾟ抵抗器
41	0FT23462250／／	AD	DJ		C	Resistor(RK73K2ATD 2.2KΩJ) [R52] ﾁｯﾌﾟ抵抗器
42	0FT23462250／／	AD	DJ		C	Resistor(RK73K2ATD 2.2KΩJ) [R66] ﾁｯﾌﾟ抵抗器
43	0FT23462250／／	AD	DJ		C	Resistor(RK73K2ATD 2.2KΩJ) [R68] ﾁｯﾌﾟ抵抗器
44	0FT23462269／／	AD	DJ		C	Resistor(RK73K2ATD 10KΩJ) [R8] ﾁｯﾌﾟ抵抗器
45	0FT23462269／／	AD	DJ		C	Resistor(RK73K2ATD 10KΩJ) [R17] ﾁｯﾌﾟ抵抗器
46	0FT23462269／／	AD	DJ		C	Resistor(RK73K2ATD 10KΩJ) [R48] ﾁｯﾌﾟ抵抗器
47	0FT23462293／／	AD	DJ		C	Resistor(RK73K2ATD 560ΩJ) [R31] ﾁｯﾌﾟ抵抗器
48	0FT23463362／／	AD	DJ		C	Resistor(RK73K2ATD 180ΩJ) [R42] ﾁｯﾌﾟ抵抗器
49	0FT23536106／／	AD	DJ		C	Resistor(RK73K2ATD 1.5KΩJ) [RX2] ﾁｯﾌﾟ抵抗器
50	0FT23536106／／	AD	DJ		C	Resistor(RK73K2ATD 1.5KΩJ) [R22] ﾁｯﾌﾟ抵抗器
51	0FT23536106／／	AD	DJ		C	Resistor(RK73K2ATD 1.5KΩJ) [R59] ﾁｯﾌﾟ抵抗器
52	0FT23538850／／	AD	DJ		C	Resistor(RK73K2ATD 4.7KΩJ) [R46] ﾁｯﾌﾟ抵抗器
53	0FT23538850／／	AD	DJ		C	Resistor(RK73K2ATD 4.7KΩJ) [R67] ﾁｯﾌﾟ抵抗器
54	0FT23538885／／	AD	DJ		C	Resistor(RK73K2ATD 100ΩJ) [R69] ﾁｯﾌﾟ抵抗器
55	0FT23538915／／	AD	DJ		C	Resistor(RK73K2ATD 5.6KΩJ) [R71] ﾁｯﾌﾟ抵抗器
56	0FT23538923／／	AD	DJ		C	Resistor(RK73K2ATD 3.9KΩJ) [R37] ﾁｯﾌﾟ抵抗器
57	0FT23538974／／	AD	DJ		C	Resistor(RK73K2ATD 2.7KΩJ) [R7] ﾁｯﾌﾟ抵抗器
58	0FT23538982／／	AD	DJ		C	Resistor(RK73K2ATD 47ΩJ) [R23] ﾁｯﾌﾟ抵抗器
59	0FT23541509／／	AK	DX		B	Zener diode(RD8.2M-B2) [D11] ﾁｯﾌﾟﾂｪﾅｰﾀﾞｲｵｰﾄﾞ
60	0FT23546047／／	AD	DJ		C	Resistor(RK73K2ATD 100KΩJ) [R57] ﾁｯﾌﾟ抵抗器
61	0FT23546047／／	AD	DJ		C	Resistor(RK73K2ATD 100KΩJ) [R63] ﾁｯﾌﾟ抵抗器
62	0FT23549119／／	AF	DS		C	Capacitor(GRM40R103K25PT) [C10] ﾁｯﾌﾟｾﾗﾐｯｸｺﾝﾃﾞﾝｻ
63	0FT23549119／／	AF	DS		C	Capacitor(GRM40R103K25PT) [C13] ﾁｯﾌﾟｾﾗﾐｯｸｺﾝﾃﾞﾝｻ
64	0FT23549119／／	AF	DS		C	Capacitor(GRM40R103K25PT) [C14] ﾁｯﾌﾟｾﾗﾐｯｸｺﾝﾃﾞﾝｻ
65	0FT23549119／／	AF	DS		C	Capacitor(GRM40R103K25PT) [C39] ﾁｯﾌﾟｾﾗﾐｯｸｺﾝﾃﾞﾝｻ
66	0FT23549119／／	AF	DS		C	Capacitor(GRM40R103K25PT) [C50] ﾁｯﾌﾟｾﾗﾐｯｸｺﾝﾃﾞﾝｻ
67	0FT23549119／／	AF	DS		C	Capacitor(GRM40R103K25PT) [C54] ﾁｯﾌﾟｾﾗﾐｯｸｺﾝﾃﾞﾝｻ
68	0FT23549119／／	AF	DS		C	Capacitor(GRM40R103K25PT) [C55] ﾁｯﾌﾟｾﾗﾐｯｸｺﾝﾃﾞﾝｻ
69	0FT23551148／／	AK	DX		B	Zener diode(RD12M-B2-T1) [D5] ﾁｯﾌﾟﾂｪﾅｰﾀﾞｲｵｰﾄﾞ
70	0FT23551377／／	AK	DX		B	Diode(SFPM-52VL) [D62] ﾁｯﾌﾟﾀﾞｲｵｰﾄﾞ
71	0FT23557111／／	AD	DJ		C	Resistor(RK73K2ATD 220ΩJ) [R21] ﾁｯﾌﾟ抵抗器
72	0FT23565505／／	AD	DJ		C	Resistor(RK73K2ATD 220KΩJ) [R56] ﾁｯﾌﾟ抵抗器
73	0FT23578194／／	AD	DJ		C	Resistor(RK73K2ATD 22ΩJ) [R43] ﾁｯﾌﾟ抵抗器
74	0FT23578194／／	AD	DJ		C	Resistor(RK73K2ATD 22ΩJ) [R51] ﾁｯﾌﾟ抵抗器
75	0FT23581330／／	AD	DJ		C	Capacitor(GRM40R104K25PT) [CX1] ﾁｯﾌﾟｾﾗﾐｯｸｺﾝﾃﾞﾝｻ
76	0FT23581330／／	AD	DJ		C	Capacitor(GRM40R104K25PT) [CX2] ﾁｯﾌﾟｾﾗﾐｯｸｺﾝﾃﾞﾝｻ
77	0FT23581330／／	AD	DJ		C	Capacitor(GRM40R104K25PT) [C36] ﾁｯﾌﾟｾﾗﾐｯｸｺﾝﾃﾞﾝｻ
78	0FT23583309／／	AG	DX		B	Zener diode(RD5.6M-B2-T1) [D42] ﾁｯﾌﾟﾂｪﾅｰﾀﾞｲｵｰﾄﾞ
79	0FT23598470／／	AG	DX		B	Zener diode(RD10M-B2-T1) [D46] ﾁｯﾌﾟﾂｪﾅｰﾀﾞｲｵｰﾄﾞ
80	0FT23624293／／	AD	DJ		C	Resistor(RK73K2ATD 27KΩJ) [R16] ﾁｯﾌﾟ抵抗器
81	0FT23625591／／	AD	DJ		C	Resistor(RK73K2ATD 1.8KΩJ) [R36] ﾁｯﾌﾟ抵抗器
82	0FT23625591／／	AD	DJ		C	Resistor(RK73K2ATD 1.8KΩJ) [R40] ﾁｯﾌﾟ抵抗器
83	0FT23663914／／	AD	DJ		C	Resistor(RK73K2ATD 5.1KΩJ) [R33] ﾁｯﾌﾟ抵抗器
84	0FT33122675／／	AF	DS		B	Diode(KDS184RTK) [D6] ﾁｯﾌﾟﾀﾞｲｵｰﾄﾞ
85	0FT33122675／／	AF	DS		B	Diode(KDS184RTK) [D10] ﾁｯﾌﾟﾀﾞｲｵｰﾄﾞ
86	0FT33122675／／	AF	DS		B	Diode(KDS184RTK) [D12] ﾁｯﾌﾟﾀﾞｲｵｰﾄﾞ
87	0FT33122675／／	AF	DS		B	Diode(KDS184RTK) [D44] ﾁｯﾌﾟﾀﾞｲｵｰﾄﾞ
88	0FT33122675／／	AF	DS		B	Diode(KDS184RTK) [D45] ﾁｯﾌﾟﾀﾞｲｵｰﾄﾞ
89	0FT33122675／／	AF	DS		B	Diode(KDS184RTK) [D47] ﾁｯﾌﾟﾀﾞｲｵｰﾄﾞ
90	0FT33122675／／	AF	DS		B	Diode(KDS184RTK) [D54] ﾁｯﾌﾟﾀﾞｲｵｰﾄﾞ
91	0FT33122675／／	AF	DS		B	Diode(KDS184RTK) [D55] ﾁｯﾌﾟﾀﾞｲｵｰﾄﾞ
92	0FT33122675／／	AF	DS		B	Diode(KDS184RTK) [D61] ﾁｯﾌﾟﾀﾞｲｵｰﾄﾞ
93	0FT33122675／／	AF	DS		B	Diode(KDS184RTK) [D63] ﾁｯﾌﾟﾀﾞｲｵｰﾄﾞ
94	0FT33122675／／	AF	DS		B	Diode(KDS184RTK) [D66] ﾁｯﾌﾟﾀﾞｲｵｰﾄﾞ
95	0FT33189184／／	AD	DJ		C	Capacitor(GRM40-034R104K50PT) [C24] ﾁｯﾌﾟｾﾗﾐｯｸｺﾝﾃﾞﾝｻ
96	0FT23095657／／	AF	DS		B	Transister(2SC1815-Y:GR TPE2) [Q2] ﾄﾗﾝｼﾞｽﾀ
97	0FT23095657／／	AF	DS		B	Transister(2SC1815-Y:GR TPE2) [Q7] ﾄﾗﾝｼﾞｽﾀ
98	0FT23095657／／	AF	DS		B	Transister(2SC1815-Y:GR TPE2) [Q9] ﾄﾗﾝｼﾞｽﾀ
99	0FT23095657／／	AF	DS		B	Transister(2SC1815-Y:GR TPE2) [Q12] ﾄﾗﾝｼﾞｽﾀ
100	0FT23124819／／	AK	DX		C	Capacitor(KME25VB-220 TC-04) [C27] 電解ｺﾝﾃﾞﾝｻ
101	0FT23124827／／	AF	DS		C	Capacitor(KME25VB-47 TC-04) [C29] 電解ｺﾝﾃﾞﾝｻ
102	0FT23204782／／	AP	EQ		C	Capacitor(KME35VB-220 TC-04) [C23] 電解ｺﾝﾃﾞﾝｻ
103	0FT23204790／／	AP	EQ		C	Capacitor(KME35VB-100 TC-04) [C17] 電解ｺﾝﾃﾞﾝｻ
104	0FT23204790／／	AP	EQ		C	Capacitor(KME35VB-100 TC-04) [C25] 電解ｺﾝﾃﾞﾝｻ
105	0FT23241823／／	AP	EQ		B	Diode(EG01ZV0) [D36] ﾀﾞｲｵｰﾄﾞ
106	0FT23259382／／	AP	EQ		C	Capacitor(KME10VB-470 TC-04) [C37] 電解ｺﾝﾃﾞﾝｻ
107	0FT23259420／／	AP	EQ		C	Capacitor(KME35VB-470 TC-04) [C20] 電解ｺﾝﾃﾞﾝｻ
108	0FT23259447／／	AK	DX		C	Capacitor(KME50VB-1 TC-04) [C34] 電解ｺﾝﾃﾞﾝｻ
109	0FT23259498／／	AK	DX		C	Capacitor(KME50VB-10 TC-04) [C15] 電解ｺﾝﾃﾞﾝｻ
110	0FT23259498／／	AK	DX		C	Capacitor(KME50VB-10 TC-04) [C35] 電解ｺﾝﾃﾞﾝｻ
111	0FT23259498／／	AK	DX		C	Capacitor(KME50VB-10 TC-04) [C56] 電解ｺﾝﾃﾞﾝｻ
112	0FT23287629／／	AK	DX		B	Transister(2SA1015-Y TPE2) [Q6] ﾄﾗﾝｼﾞｽﾀ
113	0FT23287637／／	AP	EQ		B	Transister(2SA1020-O:Y TPE6) [Q4] ﾄﾗﾝｼﾞｽﾀ
114	0FT23287696／／	AP	EQ		B	Transister(2SC3225 TPE6) [Q3] ﾄﾗﾝｼﾞｽﾀ
115	0FT23287823／／	AK	DX		C	Capacitor(KME50VB-22 TC-04) [C21] 電解ｺﾝﾃﾞﾝｻ

57 FAX 電源基板ﾕﾆｯﾄ (FAX AC power supply unit)[AR-C260F/C260FP]

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION
		Ex.	Ja.			
116	0FT23319431//	AF	DS		B	Diode(1SS119-14 TD) [D64] ﾀﾞｲｵｰﾄﾞ
117	0FT23319431//	AF	DS		B	Diode(1SS119-14 TD) [D65] ﾀﾞｲｵｰﾄﾞ
118	0FT23326101//	AU	EZ		C	Capacitor(KME200VB-22 TC-04) [C48] 電解ｺﾝﾃﾞﾝｻ
119	0FT23329089//	AK	DX		C	Capacitor(KME50VB-47 TC-04) [C18] 電解ｺﾝﾃﾞﾝｻ
120	0FT23329089//	AK	DX		C	Capacitor(KME50VB-47 TC-04) [C42] 電解ｺﾝﾃﾞﾝｻ
121	0FT23379450//	AU	EZ		B	IC(AN1431T-TA) [Z7] IC
122	0FT23379450//	AU	EZ		B	IC(AN1431T-TA) [Z8] IC
123	0FT23394395//	AU	EZ		C	Capacitor(KME10VB-3300 TC-03) [C32] 電解ｺﾝﾃﾞﾝｻ
124	0FT23414892//	AF	DS		C	Resistor(RDF14 TS 820ΩJ) [R9] ｶｰﾎﾞﾝ抵抗器
125	0FT23415341//	AF	DS		C	Resistor(RDMF14 TS 22ΩJ) [R60] ｶｰﾎﾞﾝ抵抗器
126	0FT23415430//	AF	DS		C	Resistor(RDMF14 TS 100ΩJ) [R82] ｶｰﾎﾞﾝ抵抗器
127	0FT23415570//	AF	DS		C	Resistor(RDMF14 TS 1KΩJ) [RX1] ｶｰﾎﾞﾝ抵抗器
128	0FT23415570//	AF	DS		C	Resistor(RDMF14 TS 1KΩJ) [RX5] ｶｰﾎﾞﾝ抵抗器
129	0FT23415570//	AF	DS		C	Resistor(RDMF14 TS 1KΩJ) [RX6] ｶｰﾎﾞﾝ抵抗器
130	0FT23415600//	AF	DS		C	Resistor(RDMF14 TS 1.8KΩJ) [R89] ｶｰﾎﾞﾝ抵抗器
131	0FT23415643//	AF	DS		C	Resistor(RDMF14 TS 3.9KΩJ) [R58] ｶｰﾎﾞﾝ抵抗器
132	0FT23415651//	AF	DS		C	Resistor(RDMF14 TS 4.7KΩJ) [R49] ｶｰﾎﾞﾝ抵抗器
133	0FT23415716//	AF	DS		C	Resistor(RDMF14 TS 10KΩJ) [R53] ｶｰﾎﾞﾝ抵抗器
134	0FT23415740//	AF	DS		C	Resistor(RDMF14 TS 15KΩJ) [R45] ｶｰﾎﾞﾝ抵抗器
135	0FT23415899//	AF	DS		C	Resistor(RDMF14 TS 100KΩJ) [R55] ｶｰﾎﾞﾝ抵抗器
136	0FT23429199//	AK	DX		B	Diode(AK04V0) [D14] ﾀﾞｲｵｰﾄﾞ
137	0FT23484661//	AD	DJ		C	Resistor(RSMF12TS 0.22ΩJ) [R84] 酸化金属被膜抵抗器
138	0FT23486796//	AK	DX		C	Capacitor(DE0905-979R471K2K) [C11] ｾﾗﾐｯｸｺﾝﾃﾞﾝｻ
139	0FT23486850//	AK	DX		C	Capacitor(ECQ-B1H473KF4) [C12] ﾌｨﾙﾑｺﾝﾃﾞﾝｻ
140	0FT23486850//	AK	DX		C	Capacitor(ECQ-B1H473KF4) [C16] ﾌｨﾙﾑｺﾝﾃﾞﾝｻ
141	0FT23543641//	AK	DX		C	Fuse holder(EYF-52BCZ) [F1] ﾌｭｰｽﾞﾎﾙﾀﾞｰ
142	0FT23605507//	AK	DX		B	Diode(1GU42 TPA3) [D7] ﾀﾞｲｵｰﾄﾞ
143	0FT23605507//	AK	DX		B	Diode(1GU42 TPA3) [D9] ﾀﾞｲｵｰﾄﾞ
144	0FT23605507//	AK	DX		B	Diode(1GU42 TPA3) [D13] ﾀﾞｲｵｰﾄﾞ
145	0FT23605507//	AK	DX		B	Diode(1GU42 TPA3) [D43] ﾀﾞｲｵｰﾄﾞ
146	0FT23610810//	AK	DX		B	Diode(S5688GTPA3) [D1] ﾀﾞｲｵｰﾄﾞ
147	0FT23610810//	AK	DX		B	Diode(S5688GTPA3) [D3] ﾀﾞｲｵｰﾄﾞ
148	0FT23610810//	AK	DX		B	Diode(S5688GTPA3) [D8] ﾀﾞｲｵｰﾄﾞ
149	0FT23610810//	AK	DX		B	Diode(S5688GTPA3) [D20] ﾀﾞｲｵｰﾄﾞ
150	0FT23610810//	AK	DX		B	Diode(S5688GTPA3) [D21] ﾀﾞｲｵｰﾄﾞ
151	0FT23610810//	AK	DX		B	Diode(S5688GTPA3) [D22] ﾀﾞｲｵｰﾄﾞ
152	0FT23610810//	AK	DX		B	Diode(S5688GTPA3) [D23] ﾀﾞｲｵｰﾄﾞ
153	0FT23610810//	AK	DX		B	Diode(S5688GTPA3) [D48] ﾀﾞｲｵｰﾄﾞ
154	0FT23624285//	AK	DX		B	Diode(EG01CV0) [D52] ﾀﾞｲｵｰﾄﾞ
155	0FT23690482//	AD	DJ		C	Resistor(RSMF12TS 10ΩJ) [R32] 酸化金属被膜抵抗器
156	0FT23752267//	AD	DJ		C	Resistor(RSMF12TS 2.2ΩJ) [R50] 酸化金属被膜抵抗器
157	0FT23752267//	AD	DJ		C	Resistor(RSMF12TS 2.2ΩJ) [R86] 酸化金属被膜抵抗器
158	0FT33005385//	AD	DJ		C	Resistor(RSMF12TS 4.7KΩJ) [R87] 酸化金属被膜抵抗器
159	0FT33036442//	AD	DJ		C	Resistor(RSMF12TS 180ΩJ) [R61] 酸化金属被膜抵抗器
160	0FT33055277//	AK	DX		C	Terminal(TP00448-41) [4] 端子
161	0FT33186711//	AR	EQ		B	Transister(2SA1625-T HFE=M:L) [Q8] ﾄﾗﾝｼﾞｽﾀ
162	0FT33213786//	AK	DX		C	Capacitor(DE1007-486E222M-KH) [C2] ｾﾗﾐｯｸｺﾝﾃﾞﾝｻ
163	0FT33213786//	AK	DX		C	Capacitor(DE1007-486E222M-KH) [C3] ｾﾗﾐｯｸｺﾝﾃﾞﾝｻ
164	0FT33295049//	AK	DX		C	Capacitor(DE0605-979SL470J2K) [C7] ｾﾗﾐｯｸｺﾝﾃﾞﾝｻ
165	0FT33388799//	AP	EQ		C	Capacitor(DE1207-486E332M-KH) [C8] ｾﾗﾐｯｸｺﾝﾃﾞﾝｻ
166	0FT33552203//	AD	DJ		C	Resistor(RSPF12TS 470KΩJ) [R1] 電力形被膜抵抗器
167	0FT33570120//	AD	DJ		C	Resistor(RSPF12TS 150KΩJ) [R90] 電力形被膜抵抗器
168	0FT33008015//	AW	FG		B	Rectifier(D2SB60) [RC1] 整流器
169	0FT33035349//	AK	DX		B	Diode(RL2Z LF-A1) [D38] ﾀﾞｲｵｰﾄﾞ
170	0FT33085427//	AU	EZ		B	Transister(2SA1400 HFE=K) [Q10] ﾄﾗﾝｼﾞｽﾀ
⚠ 171	0FT33146922//	AK	DX		A	Fuse(51S040L AC125V 4A) [F1] ｶﾞﾗｽ管ﾌｭｰｽﾞ
172	0FT33173377//	BA	FX		B	Reactle(LF-4D-E822) [L1] ﾘｱｸﾄﾙ
173	0FT33197209//	BA	FX		B	Photocoupler(TLP747J(D4) 0884) [PC2] ﾌｫﾄｶﾌﾟﾗ
174	0FT33199031//	AW	FG		B	Transister(2SC4130-O.Y) [Q1] ﾄﾗﾝｼﾞｽﾀ
175	0FT33213581//	AP	EQ		C	Fin(ST-S 20G PT1 15X35X10) [9] ﾌｨﾝ
176	0FT33262132//	AP	EQ		B	Photocoupler(PC123FY2) [PC1] ﾌｫﾄｶﾌﾟﾗ
177	0FT33262132//	AP	EQ		B	Photocoupler(PC123FY2) [PC3] ﾌｫﾄｶﾌﾟﾗ
178	0FT33293976//	AF	DS		C	Capacitor(DD104-63CH470J50) [C38] ｾﾗﾐｯｸｺﾝﾃﾞﾝｻ
179	0FT33331673//	AZ	FQ		B	Regurator(UPC29M33HF) [Z4] IC ﾚｷﾞｭﾚｰﾀ
180	0FT33441622//	AL	EB		C	Capacitor(ECQU2A104ML P=15.0MM) [C4] ﾌｨﾙﾑｺﾝﾃﾞﾝｻ
181	0FT33441630//	AP	EQ		C	Capacitor(ECQU2A224ML P=15.0MM) [C1] ﾌｨﾙﾑｺﾝﾃﾞﾝｻ
182	0FT33478232//	AZ	FQ		C	Capacitor(HU4 2D 331MRXS3SS DIA22X30L) [C5] 電解ｺﾝﾃﾞﾝｻ
183	0FT33509685//	AP	EQ		C	Connector(B04B-XASK-1-A) [CN3] ｺﾈｸﾀ
184	0FT33529090//	AP	EQ		C	Tarminal(85163 #250) [L] ﾌｧｽﾄﾝ端子
185	0FT33529090//	AP	EQ		C	Tarminal(85163 #250) [L1F] ﾌｧｽﾄﾝ端子
186	0FT33529090//	AP	EQ		C	Tarminal(85163 #250) [N] ﾌｧｽﾄﾝ端子
187	0FT33529090//	AP	EQ		C	Tarminal(85163 #250) [N1F] ﾌｧｽﾄﾝ端子
188	0FT33568266//	BA	FX		B	Relay(SDT-S-112LMR) [RL3] ﾘﾚｰ
189	0FT33570163//	AF	DS		C	Resistor(RSPF1B 150KΩJ) [R24] 電力形被膜抵抗器
190	0FT33570163//	AF	DS		C	Resistor(RSPF1B 150KΩJ) [R25] 電力形被膜抵抗器
191	0FT33603762//	BB	GD		B	IC(PQ12RF1) [Z3] IC
192	0FT33603789//	BF	GN		B	Transformer(CXM41100-505) [T1] 変圧器
193	0FT33638361//	BC	GJ		B	Relay(G2R-1A-E-TV8-ASI DC12V) [RL1] ﾘﾚｰ
194	0FT33638361//	BC	GJ		B	Relay(G2R-1A-E-TV8-ASI DC12V) [RL2] ﾘﾚｰ
⚠ 195	0FT35863281//	BF	GN		B	Transformer(EXT43420-635C) [T2] 変圧器

57 FAX 電源基板ﾕﾆｯﾄ (FAX AC power supply unit)[AR-C260F/C260FP]

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION
		Ex.	Ja.			
	(Unit)					
901	RDENC0004FCZZ	BV	RB		E	FAX AC power supply unit FAX AC 電源ﾕﾆｯﾄ

58 PRTC 基板 (PRTC PWB)[AR-C260M/C260FP]

NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION
		Ex.	Ja.			
1	PCAPH0010GCZZ	AD	DJ		C	Cap(JM-2W-96) [JP1,JP3,JP7] ｷｬｯﾌﾟ
2	PCŌVP1468FCZZ	AD	DJ		D	FAX battery cover [BT1] FAX ﾃﾞﾝﾁｶﾊﾞｰ
3	PRDAR0057FCZ1	AF	DS	N	C	Heat sink(C16UG16-30) [IC12] ﾎｳﾈﾂﾊﾞﾝ
4	PRDAF0089FCZZ	AU	EZ		C	Heat Sink(MI-MBA25101-23W/2.54BU) [IC26] ﾎｳﾈﾂﾊﾞﾝ
5	PSHEZ4684FCZZ	AC	DJ		C	Sheet(2067B) [IC12] ｸｰﾙｼｰﾄ
6	QCNCM1182FCZZ	AM	EG		C	Connector (Board to Board) (100pin PCI CN)(100P9.2-JXKS-GB) [CN12,CN8] ｺﾈｸﾀｰ
7	QCNCM1183FCZZ	AM	EG		C	Connector (Board to Board) (100pin PCI CN)(100P15.2-JXKS-GB) [CN9] ｺﾈｸﾀｰ
8	QCNCP0340QCZZ	AC	DJ		C	Connector(3pin) [CN14] ｺﾈｸﾀｰ
9	QSŌCN0002ESZZ	AH	DX		C	Socket(RBE42-36K11) [CN15] ｿｹｯﾄ
10	QCNCW1190FCZZ	AN	EG		C	Connector (Board to Board)(TX24-100R-LT-H1) [CN1] ｺﾈｸﾀ-
11	QPiN−0003GCZZ	AC	DJ		C	Pin(T3B-SQ) [JP1,JP3,JP7] ﾋﾟﾝ
12	QSŌCN0005ESZZ	AE	DS		C	Socket(UBR234K2200) [CN13] ｿｹｯﾄ
13	QSŌCZ0001QSZZ	AL	EB		C	Socket(DMM168-FLAA2-3A133) [CN10,CN11] ｿｹｯﾄ
14	QSŌCZ0002QSZZ	AD	DJ		C	IC socket [IC20] IC ｿｹｯﾄ
15	QSŌCZ0073FCNA	AL	EB		C	DIMM Socket(72pin Flash DIMM)(DMM2-SD72A-113) [CN3,CN4,CN6,CN7] DIMM ｿｹｯﾄ
16	RCiLZ0353AFZZ	AH	DX		C	Chock coil(PLP3216S121SL2)(Typ120Ω) [L8] ｺﾓﾝﾓｰﾄﾞﾁｮｰｸｺｲﾙ
17	RCŌRF1057ACZZ	AB	DJ		C	Ferrite beads(BLM21P221SG) [L6,L9,L11] ﾌｪﾗｲﾄﾋﾞｰｽﾞ
18	RCRSP0080FCZZ	AF	DS		B	Crystal(16.345MHz)(AT-51,16.345MHz) [Y3] ｸﾘｽﾀﾙ
20	RCRSP6676RCZZ	AG	DX		B	Crystal(32.768KHz) [Y1] ｸﾘｽﾀﾙ
21	RFiLN0048FCZZ	AC	DJ		C	Chip Inductor(BLM10B121SBPTM) [L3,L4] ｲﾝﾀﾞｸﾀｰ
22	RH−iX1013ACZZ	BK	HC		B	SDRAM (256Mb)(W982516BH-75) [IC27,IC32,IC39,IC46] SDRAM (256Mb)
23	RMPTR4100ACZZ	AB	DD		B	Block resistor(10Ω×4) [BR22,BR23,BR24,BR25,BR26] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTR4100ACZZ	AB	DD		B	Block resistor(10Ω×4) [BR27,BR28,BR29,BR30,BR31] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTR4100ACZZ	AB	DD		B	Block resistor(10Ω×4) [BR32,BR33,BR34,BR35,BR36] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTR4100ACZZ	AB	DD		B	Block resistor(10Ω×4) [BR40,BR41,BR42,BR43,BR47] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTR4100ACZZ	AB	DD		B	Block resistor(10Ω×4) [BR48,BR50,BR53,BR55,BR58] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTR4100ACZZ	AB	DD		B	Block resistor(10Ω×4) [BR60,BR80,BR83,BR84,BR85] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTR4100ACZZ	AB	DD		B	Block resistor(10Ω×4) [BR86,BR87,BR88,BR89,BR90] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTR4100ACZZ	AB	DD		B	Block resistor(10Ω×4) [BR92,BR93,BR94,BR95,BR96,BR97] ﾌﾞﾛｯｸﾃｲｺｳ
24	RMPTR4103ACZZ	AB	DD		B	Block resistor(10KΩ×4) [BR1,BR2,BR3,BR4,BR5] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTR4103ACZZ	AB	DD		B	Block resistor(10KΩ×4) [BR6,BR7,BR8,BR9,BR10] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTR4103ACZZ	AB	DD		B	Block resistor(10KΩ×4) [BR11,BR12,BR21,BR49,BR51] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTR4103ACZZ	AB	DD		B	Block resistor(10KΩ×4) [BR54,BR57,BR61,BR62,BR64] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTR4103ACZZ	AB	DD		B	Block resistor(10KΩ×4) [BR65,BR66,BR68,BR69,BR70] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTR4103ACZZ	AB	DD		B	Block resistor(10KΩ×4) [BR71,BR73,BR78,BR81,BR82,BR91] ﾌﾞﾛｯｸﾃｲｺｳ
25	RMPTR4330ACZZ	AB	DD		B	Block resistor(33Ω×4) [BR13, BR14,BR15,BR16,BR17] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTR4330ACZZ	AB	DD		B	Block resistor(33Ω×4) [BR18,BR19,BR20,BR37,BR38] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTR4330ACZZ	AB	DD		B	Block resistor(33Ω×4) [BR39,BR44,BR45,BR46,BR52] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTR4330ACZZ	AB	DD		B	Block resistor(33Ω×4) [BR56,BR59,BR63,BR67,BR72] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTR4330ACZZ	AB	DD		B	Block resistor(33Ω×4) [BR74,BR75,BR76,BR77,BR79] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTR4330ACZZ	AB	DD		B	Block resistor(33Ω×4) [BR98,BR99,BR100,BR101,BR102] ﾌﾞﾛｯｸﾃｲｺｳ
	RMPTR4330ACZZ	AB	DD		B	Block resistor(33Ω×4) [BR103,BR104,BR105,BR106] ﾌﾞﾛｯｸﾃｲｺｳ
⚠ 26	UBATL2033SCZZ	AK	EB		B	Battery(CR2032-H03) [BT1] ﾊﾞｯﾃﾘｰ
27	VCAAPF0JJ107M	AF	DS		C	Capacitor(PXA 100μF/6.3V)(PXA6.3VC100MF60) [C53,C106,C327] ｺﾝﾃﾞﾝｻｰ
28	VCCCCZ1HH101J	AA	DD		C	Capacitor(50WV 100pF) [C293,C294,C295,C296,C297] ｺﾝﾃﾞﾝｻｰ
	VCCCCZ1HH101J	AA	DD		C	Capacitor(50WV 100pF) [C298,C299,C300,C301,C302] ｺﾝﾃﾞﾝｻｰ
	VCCCCZ1HH101J	AA	DD		C	Capacitor(50WV 100pF) [C303,C304,C305,C306,C307] ｺﾝﾃﾞﾝｻｰ
	VCCCCZ1HH101J	AA	DD		C	Capacitor(50WV 100pF) [C308,C309] ｺﾝﾃﾞﾝｻｰ
29	VCCCCZ1HH220J	AA	DD		C	Capacitor(50WV 22pF) [C153,C176,C286,C290,C329,C330] ｺﾝﾃﾞﾝｻｰ
30	VCEAPH1VC225M	AC	DD		C	Capacitor(2.2μF/35V) [C146,C147,C148,C149,C193] ｺﾝﾃﾞﾝｻｰ
	VCEAPH1VC225M	AC	DD		C	Capacitor(2.2μF/35V) [C199,C256,C257] ｺﾝﾃﾞﾝｻｰ
31	VCEAPS1AC227M	AD	DJ		C	Capacitor(220μF/10V (MVY)) [C2,C44,C45,C276,C277] ｺﾝﾃﾞﾝｻｰ
32	VCEAPS1CC106M	AC	DD		C	Capacitor(16WV 10μF) [C21,C38,C271,C272] ｺﾝﾃﾞﾝｻｰ
33	VCEAPS1CC226M	AC	DJ		C	Capacitor(22μF/16V) [C57,C102,C279,C314] ｺﾝﾃﾞﾝｻｰ
34	VCEAPS1CC476M	AC	DJ		C	Capacitor(47μF/16V) [C31,C39,C52,C118,C139] ｺﾝﾃﾞﾝｻｰ
	VCEAPS1CC476M	AC	DJ		C	Capacitor(47μF/16V) [C194,C260] ｺﾝﾃﾞﾝｻｰ
35	VCEAPZ1EW107M	AD	DJ		C	Capacitor(25WV 100μF) [C20] ｺﾝﾃﾞﾝｻｰ
37	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1μF) [C3,C4,C5,C6,C10] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1μF) [C12,C23,C24,C25,C26] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1μF) [C28,C29,C30,C32,C33] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1μF) [C35,C36,C37,C40,C41] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1μF) [C42,C46,C51,C54,C55] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1μF) [C56,C58,C59,C61,C62] ｺﾝﾃﾞﾝｻｰ

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NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION
		Ex.	Ja.			
37	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C67,C68,C70,C71,C72] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C74,C75,C77,C78,C79] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C80,C81,C88,C89,C91] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C92,C93,C94,C95,C96] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C97,C101,C103,C107,C108] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C110,C112,C113,C114,C117] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C119,C120,C121,C122,C127] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C128,C129,C130,C131,C132] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C134,C136,C138,C140,C143] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C144,C145,C155,C160,C161] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C166,C167,C169,C174,C175] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C177,C180,C182,C185,C189] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C190,C191,C192,C196,C200] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C201,C203,C204,C205,C217] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C218,C219,C220,C223,C224] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C225,C226,C230,C231,C232] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C234,C235,C236,C238,C240] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C241,C242,C243,C245,C247] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C248,C250,C251,C252,C253] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C254,C255,C258,C259,C261] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C263,C264,C265,C266,C267] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C268,C274,C278,C280,C281] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C282,C283,C284,C285,C287] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1CF104Z	AB	DD		C	Capacitor(16WV 0.1µF) [C292,C315,C316,C322,C323] ｺﾝﾃﾞﾝｻｰ
38	VCKYCZ1HB102K	AA	DD		C	Capacitor(50WV 1000pF) [C69,C84,C87,C90,C111] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1HB102K	AA	DD		C	Capacitor(50WV 1000pF) [C116,C123,C142,C163,C164] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1HB102K	AA	DD		C	Capacitor(50WV 1000pF) [C195,C202,C273,C331] ｺﾝﾃﾞﾝｻｰ
39	VCKYCZ1HF103Z	AA	DD		C	Capacitor(0.01µF/50V) [C9,C11,C47,C48,C49] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1HF103Z	AA	DD		C	Capacitor(0.01µF/50V) [C50,C60,C63,C64,C65] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1HF103Z	AA	DD		C	Capacitor(0.01µF/50V) [C66,C73,C76,C82,C83] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1HF103Z	AA	DD		C	Capacitor(0.01µF/50V) [C86,C98,C99,C100,C104] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1HF103Z	AA	DD		C	Capacitor(0.01µF/50V) [C105,C109,C115,C124,C133] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1HF103Z	AA	DD		C	Capacitor(0.01µF/50V) [C135,C137,C162,C165,C181] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1HF103Z	AA	DD		C	Capacitor(0.01µF/50V) [C221,C229,C237,C239,C249] ｺﾝﾃﾞﾝｻｰ
	VCKYCZ1HF103Z	AA	DD		C	Capacitor(0.01µF/50V) [C262,C288,C289,C328,C332] ｺﾝﾃﾞﾝｻｰ
40	VHDRB051L40－1	AE	DS		B	Diode(RB051L40) [D5] ﾀﾞｲｵｰﾄﾞ
41	VHDRB451F／／－1	AD	DS		B	Diode(RB451F) [D3,D4,D6,D8,D9] ﾀﾞｲｵｰﾄﾞ
42	VHi107AP66C－1	BX	TF		B	Microcontroller(XPC107APX66LC) [IC40] IC
43	VHi1085CZAD－1	AH	DX		B	Voltage Regulator(PJ1085CZ) [IC12] IC
44	VHi2309SC1H－1	AT	EZ		B	Zero Delay Buffer(CY2309SC-1H) [IC29] IC
45	VHi60852ATB－1	AX	FG		B	USB Controller(ML60852ATB) [IC45] IC
46	VHi74LCX08MTC	AE	DJ		B	IC(74LCX08MTC) [IC28,IC1] IC
47	VHi74LCX14MTC	AE	DJ		B	IC(74LCX14MTC) [IC2,IC8,IC36] IC
48	VHi74LCX244MT	AM	DX		B	IC(74LCX244MT) [IC3,IC4,IC6,IC7,IC9] IC
	VHi74LCX244MT	AM	DX		B	IC(74LCX244MT) [IC10,IC18,IC19,IC21,IC23] IC
	VHi74LCX244MT	AM	DX		B	IC(74LCX244MT) [IC24,IC25] IC
49	VHi74LCX245MT	AM	DX		B	IC(74LCX245MT) [IC14,IC15,IC16,IC17,IC52] IC
50	VHi74LVX16128	AP	EQ		B	IC(74LVX16128) [IC48] ﾄﾞﾗｲﾊﾞ IC
51	VHi755B300E－1	BZ	TF		B	CPU(XPC755BPX300LE) [IC26] IC
52	VHi7SZ125M5－1	AE	DS		B	LOGIC(NC7SZ125M5X) [IC44] IC
55	VHiD3032＋＋＋－1	AX	FG	N	B	ASIC(D3032) [IC31] IC
56	VHiD8501A＋＋－1	BS	MW	N	B	ASIC(D8501A) [IC22] IC
57	VHiEES04L400P	AG	DX		B	EEPROM(CAT24WC04P) [IC20] EEPROM
60	VHiNJM2903M／－	AD	DJ		B	IC(NJM2903M) [IC37] IC
61	VHiNJU6356E－1	AK	DX		B	IC(NJU6356E) [IC38] IC
62	VHiPST598DN－1	AF	DS		B	Reset IC(PST598DNR) [IC34] IC
63	VHiPST598iN－1	AF	DS		B	IC(PST598I) [IC33] IC
64	VHiR1117D25－1	AG	DS		B	Voltage Regulator(RC1117D25X) [IC49] IC
67	VRS－CZ1JD000J	AA	DD		C	Resistor(1/16W 0Ω ±5%) [R6,R12,R13,R14,R15] 抵抗
	VRS－CZ1JD000J	AA	DD		C	Resistor(1/16W 0Ω ±5%) [R19,R21,R23,R24,R25] 抵抗
	VRS－CZ1JD000J	AA	DD		C	Resistor(1/16W 0Ω ±5%) [R26,R27,R28,R29,R30] 抵抗
	VRS－CZ1JD000J	AA	DD		C	Resistor(1/16W 0Ω ±5%) [R33,R34,R35,R36,R37] 抵抗
	VRS－CZ1JD000J	AA	DD		C	Resistor(1/16W 0Ω ±5%) [R38,R39,R41,R52,R54] 抵抗
	VRS－CZ1JD000J	AA	DD		C	Resistor(1/16W 0Ω ±5%) [R55,R56,R57,R58,R59] 抵抗
	VRS－CZ1JD000J	AA	DD		C	Resistor(1/16W 0Ω ±5%) [R60,R66,R82,R83,R105] 抵抗
	VRS－CZ1JD000J	AA	DD		C	Resistor(1/16W 0Ω ±5%) [R109,R118,R122,R124,R146] 抵抗
	VRS－CZ1JD000J	AA	DD		C	Resistor(1/16W 0Ω ±5%) [R148,R150,R151,R152,R156] 抵抗
	VRS－CZ1JD000J	AA	DD		C	Resistor(1/16W 0Ω ±5%) [R157,R158,R159,R160,R166] 抵抗
	VRS－CZ1JD000J	AA	DD		C	Resistor(1/16W 0Ω ±5%) [R171,R173,R175,R201,R229] 抵抗
	VRS－CZ1JD000J	AA	DD		C	Resistor(1/16W 0Ω ±5%) [R238,R241,R245,R250,R254] 抵抗
	VRS－CZ1JD000J	AA	DD		C	Resistor(1/16W 0Ω ±5%) [R267,R268,R269,R270,R271] 抵抗
	VRS－CZ1JD000J	AA	DD		C	Resistor(1/16W 0Ω ±5%) [R273,R280,R294,R296,R300] 抵抗
	VRS－CZ1JD000J	AA	DD		C	Resistor(1/16W 0Ω ±5%) [R306,R307,R313,R314,R315] 抵抗
	VRS－CZ1JD000J	AA	DD		C	Resistor(1/16W 0Ω ±5%) [R316,R321,R325,R333,R345] 抵抗
	VRS－CZ1JD000J	AA	DD		C	Resistor(1/16W 0Ω ±5%) [R348,R369,R371,R373,R383] 抵抗
	VRS－CZ1JD000J	AA	DD		C	Resistor(1/16W 0Ω ±5%) [R384,R396,R397,R398,R399] 抵抗
	VRS－CZ1JD000J	AA	DD		C	Resistor(1/16W 0Ω ±5%) [R400,R409,R410,R421,R443] 抵抗
	VRS－CZ1JD000J	AA	DD		C	Resistor(1/16W 0Ω ±5%) [R445,R468,R493,R521,R532] 抵抗
	VRS－CZ1JD000J	AA	DD		C	Resistor(1/16W 0Ω ±5%) [R537,R540,R548,R549,R555] 抵抗
	VRS－CZ1JD000J	AA	DD		C	Resistor(1/16W 0Ω ±5%) [R556,R557,R558,R566,R574] 抵抗

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NO.	PARTS CODE	PRICE RANK		NEW MARK	PART RANK	DESCRIPTION
		Ex.	Ja.			
67	VRS－CZ1JD000J	AA	DD		C	Resistor(1/16W 0Ω ±5%) [R604,R607,R608,R611,R612] 抵抗
	VRS－CZ1JD000J	AA	DD		C	Resistor(1/16W 0Ω ±5%) [R615,R618,R620] 抵抗
68	VRS－CZ1JD100J	AA	DD		C	Resistor(1/16W 10Ω ±5%) [R169,R178,R179,R180,R181] 抵抗
	VRS－CZ1JD100J	AA	DD		C	Resistor(1/16W 10Ω ±5%) [R182,R184,R185,R187,R188] 抵抗
	VRS－CZ1JD100J	AA	DD		C	Resistor(1/16W 10Ω ±5%) [R189,R190,R191,R194,R195] 抵抗
	VRS－CZ1JD100J	AA	DD		C	Resistor(1/16W 10Ω ±5%) [R196,R200,R203,R206,R208] 抵抗
	VRS－CZ1JD100J	AA	DD		C	Resistor(1/16W 10Ω ±5%) [R210,R213,R217,R218,R222] 抵抗
	VRS－CZ1JD100J	AA	DD		C	Resistor(1/16W 10Ω ±5%) [R223,R224,R225,R227,R228] 抵抗
	VRS－CZ1JD100J	AA	DD		C	Resistor(1/16W 10Ω ±5%) [R236,R243,R248,R259,R260] 抵抗
	VRS－CZ1JD100J	AA	DD		C	Resistor(1/16W 10Ω ±5%) [R261,R264,R266,R299,R308] 抵抗
	VRS－CZ1JD100J	AA	DD		C	Resistor(1/16W 10Ω ±5%) [R317,R318,R319,R320,R322] 抵抗
	VRS－CZ1JD100J	AA	DD		C	Resistor(1/16W 10Ω ±5%) [R323,R324,R337,R352,R353] 抵抗
	VRS－CZ1JD100J	AA	DD		C	Resistor(1/16W 10Ω ±5%) [R388,R389,R391,R392,R411] 抵抗
	VRS－CZ1JD100J	AA	DD		C	Resistor(1/16W 10Ω ±5%) [R412,R413,R414,R415,R434] 抵抗
	VRS－CZ1JD100J	AA	DD		C	Resistor(1/16W 10Ω ±5%) [R455,R465,R467,R490,R499] 抵抗
	VRS－CZ1JD100J	AA	DD		C	Resistor(1/16W 10Ω ±5%) [R501,R504,R507,R513,R545] 抵抗
	VRS－CZ1JD100J	AA	DD		C	Resistor(1/16W 10Ω ±5%) [R634,R635] 抵抗
69	VRS－CZ1JD102J	AA	DD		C	Resistor(1/16W 1KΩ ±5%) [R1,R3,R7,R8,R11] 抵抗
	VRS－CZ1JD102J	AA	DD		C	Resistor(1/16W 1KΩ ±5%) [R20,R42,R45,R62,R64] 抵抗
	VRS－CZ1JD102J	AA	DD		C	Resistor(1/16W 1KΩ ±5%) [R68,R94,R100,R102,R107] 抵抗
	VRS－CZ1JD102J	AA	DD		C	Resistor(1/16W 1KΩ ±5%) [R117,R255,R338,R366,R380] 抵抗
	VRS－CZ1JD102J	AA	DD		C	Resistor(1/16W 1KΩ ±5%) [R405,R422,R423,R424,R436] 抵抗
	VRS－CZ1JD102J	AA	DD		C	Resistor(1/16W 1KΩ ±5%) [R437,R452,R562,R595,R596] 抵抗
	VRS－CZ1JD102J	AA	DD		C	Resistor(1/16W 1KΩ ±5%) [R597,R598,R599,R600,R601] 抵抗
	VRS－CZ1JD102J	AA	DD		C	Resistor(1/16W 1KΩ ±5%) [R605,R614,R616] 抵抗
70	VRS－CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) [R5,R61,R63,R71,R80] 抵抗
	VRS－CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) [R90,R99,R103,R108,R141] 抵抗
	VRS－CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) [R142,R143,R144,R161,R162] 抵抗
	VRS－CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) [R167,R183,R186,R192,R197] 抵抗
	VRS－CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) [R198,R199,R207,R211,R214] 抵抗
	VRS－CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) [R215,R216,R221,R226,R230] 抵抗
	VRS－CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) [R231,R232,R239,R240,R242] 抵抗
	VRS－CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) [R244,R246,R247,R249,R262] 抵抗
	VRS－CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) [R263,R272,R278,R282,R283] 抵抗
	VRS－CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) [R284,R285,R286,R288,R290] 抵抗
	VRS－CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) [R301,R302,R304,R305,R310] 抵抗
	VRS－CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) [R311,R312,R350,R351,R354] 抵抗
	VRS－CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) [R355,R356,R357,R359,R364] 抵抗
	VRS－CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) [R365,R367,R385,R390,R406] 抵抗
	VRS－CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) [R420,R429,R435,R438,R440] 抵抗
	VRS－CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) [R446,R454,R469,R470,R471] 抵抗
	VRS－CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) [R475,R476,R484,R495,R496] 抵抗
	VRS－CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) [R497,R503,R506,R509,R512] 抵抗
	VRS－CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) [R514,R516,R517,R519,R520] 抵抗
	VRS－CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) [R523,R526,R527,R530,R534] 抵抗
	VRS－CZ1JD103J	AA	DD		C	Resistor(1/16W 10KΩ ±5%) [R542,R543,R559,R561,R563,R564] 抵抗
71	VRS－CZ1JD105J	AA	DD		C	Resistor(1/16W 1.0MΩ ±5%) [R485,R539] 抵抗
73	VRS－CZ1JD152J	AA	DD		C	Resistor(1/16W 1.5KΩ ±5%) [R550] 抵抗
74	VRS－CZ1JD201J	AA	DD		C	Resistor(1/16W 200Ω ±5%) [R2,R4,R174,R293,R339] 抵抗
	VRS－CZ1JD201J	AA	DD		C	Resistor(1/16W 200Ω ±5%) [R340,R602] 抵抗
75	VRS－CZ1JD220J	AA	DD		C	Resistor(1/16W 22Ω ±5%) [R40,R69,R73,R78,R79] 抵抗
	VRS－CZ1JD220J	AA	DD		C	Resistor(1/16W 22Ω ±5%) [R81,R139,R341,R343,R360] 抵抗
	VRS－CZ1JD220J	AA	DD		C	Resistor(1/16W 22Ω ±5%) [R361,R362,R363,R378,R379] 抵抗
	VRS－CZ1JD220J	AA	DD		C	Resistor(1/16W 22Ω ±5%) [R393,R394,R401,R402,R408] 抵抗
	VRS－CZ1JD220J	AA	DD		C	Resistor(1/16W 22Ω ±5%) [R426,R427,R428,R449,R451] 抵抗
	VRS－CZ1JD220J	AA	DD		C	Resistor(1/16W 22Ω ±5%) [R498,R544,R546,R576,R577] 抵抗
	VRS－CZ1JD220J	AA	DD		C	Resistor(1/16W 22Ω ±5%) [R578,R579,R580,R581,R582] 抵抗
	VRS－CZ1JD220J	AA	DD		C	Resistor(1/16W 22Ω ±5%) [R583,R584,R585,R586,R587] 抵抗
	VRS－CZ1JD220J	AA	DD		C	Resistor(1/16W 22Ω ±5%) [R588,R589,R590,R591,R592] 抵抗
76	VRS－CZ1JD330J	AA	DD		C	Resistor(1/16W 33Ω ±5%) [R89,R91,R92,R95,R96] 抵抗
	VRS－CZ1JD330J	AA	DD		C	Resistor(1/16W 33Ω ±5%) [R97,R98,R104,R110,R111] 抵抗
	VRS－CZ1JD330J	AA	DD		C	Resistor(1/16W 33Ω ±5%) [R125,R136,R137,R138,R140] 抵抗
	VRS－CZ1JD330J	AA	DD		C	Resistor(1/16W 33Ω ±5%) [R202,R205,R419,R425,R536] 抵抗
	VRS－CZ1JD330J	AA	DD		C	Resistor(1/16W 33Ω ±5%) [R624,R625,R626,R628,R629] 抵抗
	VRS－CZ1JD330J	AA	DD		C	Resistor(1/16W 33Ω ±5%) [R630,R631,R632,R633] 抵抗
77	VRS－CZ1JD332J	AA	DD		C	Resistor(1/16W 3.3KΩ ±5%) [R547] 抵抗
78	VRS－CZ1JD470J	AA	DD		C	Resistor(1/16W 47Ω ±5%) [R472,R473,R483,R487,R488] 抵抗
	VRS－CZ1JD470J	AA	DD		C	Resistor(1/16W 47Ω ±5%) [R500,R510,R538,R627] 抵抗
79	VRS－CZ1JD823J	AA	DD		C	Resistor(1/16W 82KΩ ±5%)(MCR01MZSJ823) [R466] 抵抗
80	VSDTC114EK／－1	AB	DD		B	Transistor(DTC114EK) [Q5] ﾄﾗﾝｼﾞｽﾀｰ
81	VSDTC114YK／－1	AC	ZZ		B	Transistor(DTC114YK) [Q1,Q3,Q4,Q13] ﾄﾗﾝｼﾞｽﾀｰ
82	XBBSD30P06000	AA	DD		C	Screw(3×6) [IC12] ﾋﾞｽ
	(Unit)					
901	CPWBN1518DS55	EB	＊＊		E	PRTC PWB PRTC 基板

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【C】						
CARMM0286FC01	572 240 0472	21- 18	AG	DX	N	C
CARMP0147DS51	572 240 0445	3- 14	BA	FX		E
CBDGD0043FC01	572 150 0033	1- 20	AQ	EQ	N	C
CBDGD0043FC02	572 150 0034	1- 20	AP	EQ	N	C
CBDGD0043FC03	572 150 0035	1- 20	AQ	EQ	N	C
CBDGD0043FC04	572 150 0031	1- 20	AR	EQ	N	C
CBDGD0043FC05	572 150 0032	1- 20	AQ	EQ	N	C
CBTN−0252FC01	572 170 0507	4- 12	AP	EQ		D
CBTN−0253FC01	572 170 0508	4- 11	AN	EG		D
CBTN−0256FC02	572 170 0511	4- 23	AR	EQ	N	D
CBTN−0256FC03	572 170 0512	4- 24	AN	EG	N	D
CBTN−0260FC01	572 170 0513	4- 20	AE	DX	N	D
CBTN−0261FC01	572 170 0514	4- 21	AK	DJ	N	D
CCADZ1518FC01	572 913 0954	36- 10	AB	DJ		D
CCADZ1561FC01	572 913 0986	36- 10	AK	DX		D
CCASP0173FC15	572 108 1287	10- 901	BG	GT		E
CCASP0173FC16	572 108 1288	10- 901	BG	GT		E
CCASP0173FC17	572 108 1284	10- 901	BF	GN		E
CCASZ0298DS52	572 108 1316	20- 501	BK	HG	N	A
CCASZ0302DS51	572 108 1312	22- 4	BB	GD	N	A
CCŌVH0212FC34	572 110 1296	5- 901	BN	HV	N	D
CDAiU0577FC31	572 210 1041	31- 40	BE	GN		E
CDAiU0618FC02	572 210 1218	6- 25	BN	HV	N	C
〃	572 210 1218	7- 24	BN	HV	N	C
CDAiU0619DS53	572 210 1217	7- 6	BR	LX	N	E
〃	572 210 1217	8- 901	BR	LX	N	E
CDSKA0002QS33	578 966 0079	36- 10	AP	EQ	N	D
CDSKA0002TS33		36- 10	＊	＊	N	D
CDSKA0014FC31		36- 10	AT	EZ	N	D
CDSKA0014FC32		36- 10	AT	EZ	N	D
CDSKA0014FC35		36- 10	AT	EZ	N	D
CDSKA0014GH35		36- 10	＊	＊	N	D
CFiX−0571FC01	572 211 0755	2- 2	AY	FQ	N	D
CFiX−0571FC02	572 211 0782	2- 2	AN	EQ	N	D
CFiX−0571FC03	572 211 0783	2- 2	AN	EQ	N	D
CFRM−1061DS71	572 213 2223	23- 12	AV	FG	N	E
CFRM−1063DS51	572 213 2224	12- 901	BF	GN	N	E
CFRM−1063FC01	572 213 2230	12- 1	AU	EZ	N	C
CFRM−1066FC01	572 213 2231	21- 21	AQ	EQ	N	C
CFRM−1066FC02	572 213 2232	21- 6	AK	EB	N	C
CFRM−1070FC01	572 213 2233	24- 32	AP	EQ	N	C
CFRM−1071FC01	572 213 2234	25- 23	AL	EB	N	C
CFRM−1072FC01	572 213 2235	25- 25	AL	EB	N	C
CFRM−1075FC01	572 213 2236	15- 12	AN	EG	N	C
CFRM−1076DS51	572 213 2225	18- 901	BD	GN	N	C
CFRM−1081DS51	572 213 2226	11- 901	BK	HG	N	E
CFRM−1081FC01	572 213 2237	11- 23	AU	FG	N	C
CFRM−1083DS51	572 213 2249	22- 901	BK	HC	N	E
CFRM−1083DS52	572 213 2227	22- 901	BH	HC	N	E
CFRM−1083DS72	572 213 2248	22- 10	AQ	EQ	N	E
CFRM−1084DS51	572 213 2228	22- 2	AR	EQ	N	E
CGiDM1977DS51	572 345 3902	16- 901	BA	FX	N	E
CGiDM1977DS52	572 345 3938	16- 901	BC	GJ	N	E
CGiDM1977DS53	572 345 3986	16- 901	BE	GN	N	E
CGLSP0104DS51	572 348 0157	2- 13	AT	EZ	N	E
CHLDZ1446FC32	572 214 2328	7- 2	BH	HC	N	E
CPAKA6340FC01	572 902 1717	36- 5	AW	FG	N	D
CPLTM5788FCE4	572 221 8193	37- 501	BS	MW	N	E
CPLTM5974FC01	572 221 8202	29- 16	AH	DX	N	C
CPLTM5975FC01	572 221 8203	29- 17	AL	EB	N	C
CPLTM5983FC01	572 221 8134	12- 6	AL	EB	N	C
CPLTM5995DS51	572 221 8125	6- 1	CA	TV	N	E
CPLTM5997FC01	572 221 8135	25- 17	AL	EB	N	C
CPLTM5999FC01	572 221 8136	26- 1	AL	EB	N	C
CPLTM6000FC01	572 221 8137	26- 8	AK	EB	N	C
CPLTM6011FC02	572 221 8138	20- 39	AS	EQ	N	C
CPLTM6017FC01	572 221 8139	28- 3	AG	DX	N	C
CPLTM6024DS51	572 221 8126	31- 15	AU	EZ	N	E
CPLTM6071FC01	572 221 8140	14- 13	AK	DX	N	C
CPLTM6109DS51	572 221 8194	24- 52	AP	EQ		E
CPNLC0248FC01	572 158 0779	4- 16	AU	FG	N	D
CPNLC0248FC02	572 158 0782	4- 16	AV	FG	N	D
CPNLC0248FC03	572 158 0780	4- 16	AU	GN	N	D
CPWBF0083RS51	578 684 0931	18- 18	AU	EZ		E
CPWBF0106RS51	572 684 4048	13- 15	AP	EQ		E
CPWBF1453FCE1	572 684 3826	3- 7	AX	FG		E
CPWBF1454FCE1	572 684 3827	7- 29	BN	LE		E
CPWBF1523FC32	572 684 4034	8- 14	BF	GN	N	E
CPWBF1525FCE1	572 684 4035	4- 3	BD	GJ	N	E
〃	572 684 4035	54- 901	BD	GJ	N	E
CPWBF1526DS51	572 684 4016	23- 27	AP	EQ	N	C
CPWBF1529DS51	572 684 4017	20- 4	AR	EQ	N	E
CPWBF1546FCE1	572 684 4036	31- 6	BB	GD	N	E
CPWBF1546FCE2	572 684 4078	31- 6	BA	FX	N	E
CPWBF1546FCE4	572 684 4079	31- 6	BA	FX	N	E
CPWBF1561DS51		31- 58	AZ	FQ	N	E
CPWBN1472FCE4	572 684 4049	37- 36	CG	UM	N	E
〃	572 684 4049	49- 901	CG	UM	N	E
CPWBN1491FCE1	572 684 3845	37- 34	CA	TV		E
〃	572 684 3845	50- 901	CA	TV		E
CPWBN1518DS55	572 684 4042	38- 16	EB	ZZ	N	E
〃	572 684 4042	58- 901	EB	ZZ	N	E
CPWBN1519DS52	572 684 4039	52- 901	CX	＊＊	N	E
〃	572 684 4039	6- 22	CX	＊＊	N	E
CPWBN1521DS51	572 684 4043	38- 12	BM	HR	N	E
CPWBN1534DS52	572 684 4044	38- 9	BP	LP	N	E
CPWBN1544DS51	572 684 4040	31- 28	BR	LX	N	E
〃	572 684 4040	51- 901	BR	LX	N	E
CPWBN1545FCE1	572 684 4037	31- 8	BQ	LP	N	E
〃	572 684 4037	55- 901	BQ	LP	N	E
CPWBN1549DS54	572 684 4041	34- 1	CU	VW	N	E
〃	572 684 4041	53- 901	CU	VW	N	E
CPWBN1549DS55	572 684 4045	34- 1	CV	VZ	N	E
〃	572 684 4045	53- 901	CV	VZ	N	E
CPWBN1549DS57	572 684 4059	34- 1	CU	VW	N	E
〃	572 684 4059	53- 901	CU	VW	N	E
CPWBN1560FCE1	572 684 4038	4- 5	BM	HR	N	E
〃	572 684 4038	56- 901	BM	HR	N	E
CRŌLM1390FC01	572 287 2390	19- 17	AW	FG	N	B
CRŌLM1404DS51	572 287 2374	19- 32	BB	GD	N	E
CSFTZ2553FC01	572 290 2487	10- 29	AN	EG		C
CSFTZ2686DS51	572 290 2894	23- 21	AV	FG	N	E
CSFTZ2694FC31	572 290 2900	7- 17	BA	FX	N	E
CSFTZ2698DS51	572 290 2895	14- 32	AQ	EQ	N	E
CSFTZ2702DS51	572 290 2896	15- 33	AP	EQ	N	E
CSFTZ2706DS51	572 290 2897	17- 41	AP	EQ	N	C
CSFTZ2716DS51	572 290 2898	22- 16	AP	EQ	N	C
CSTYM0294FC01	572 231 0594	27- 9	AS	EQ	N	C
CTHM−0011FC01	578 644 0001	24- 27	AK	EB		B
【D】						
DHAi−3193FC11	572 542 2266	4- 27	AC	DJ	N	C
DHAi−3204FC11	572 542 2267	37- 26	AM	EG	N	C
DHAi−3206FC11	572 542 2269	37- 39	AG	DX	N	C
DHAi−3207FC11	572 542 2270	37- 25	AG	DX	N	C
DHAi−3332DS11	572 542 2026	36- 11	BB	GD	N	B
DHAi−3332DSZZ	572 542 2025	36- 11	BB	GD	N	B
DHAi−3339FC11	572 542 2326	11- 2	AV	FG	N	C
DHAi−3341FCZZ	572 542 2272	17- 4	AH	DX	N	C
DHAi−3342FCZZ	572 542 2273	18- 13	AE	DS	N	C
DHAi−3344FCZZ	572 542 2274	21- 26	AF	DS	N	C
DHAi−3345FC11	572 542 2275	35- 6	AY	FQ	N	C
DHAi−3348FCZZ	572 542 2276	35- 14	AR	EQ	N	C
DHAi−3349FCZZ	572 542 2277	23- 2	AD	DJ	N	C
DHAi−3350FC11	572 542 2327	20- 26	AV	FG	N	C
DHAi−3351FCZZ	572 542 2279	23- 1	AD	DJ	N	C
DHAi−3353FCZZ	572 542 2280	24- 13	AY	FQ	N	C
DHAi−3354FC11	572 542 2328	25- 41	AH	DX	N	C
DHAi−3359FC11	572 542 2329	13- 9	AQ	EQ	N	C
DHAi−3360FCZZ	572 542 2283	35- 13	AU	EZ	N	C
DHAi−3361FCZZ	572 542 2284	35- 7	AT	EZ	N	C
DHAi−3362FCZZ	572 542 2285	31- 17	AY	FQ	N	C
DHAi−3363FCZZ	572 542 2286	35- 16	AT	EZ	N	C
DHAi−3364FCZZ	572 542 2287	33- 6	AX	FG	N	C
DHAi−3365FCZZ	572 542 2288	23- 4	AH	DX	N	C
DHAi−3367FCZZ	572 542 2289	32- 17	AT	EZ	N	C
DHAi−3369FCZZ	572 542 2290	6- 3	AN	EG	N	C
DHAi−3399FCZZ	572 542 2291	24- 13	AY	FQ	N	C
DHAi−3400FCZZ	572 542 2324	35- 7	AU	EZ	N	C
DHAi−3402FC11		33- 6	AY	FQ	N	C
DHAi−3404FCZZ	572 542 2294	35- 10	AR	EQ	N	C
DHAi−3405FCZZ	572 542 2295	35- 11	AG	DX	N	C
DHAi−3410FCZZ	572 542 2298	35- 12	AL	EB	N	C
DHAi−3412FCZZ	572 542 2300	31- 27	AC	DJ	N	C
DHAi−3413FCZZ	572 542 2301	35- 5	AN	EG	N	C
DHAi−3414FC11	572 542 2331	20- 3	AL	EB	N	C
DHAi−3416FCZZ	572 542 2303	35- 9	AN	EQ	N	C
DHAi−3419FCZZ	572 542 2304	35- 2	AE	DS	N	C
〃	572 542 2304	4- 29	AE	DS	N	C
DHAi−3424FC12	572 542 2417	35- 1	AV	FG	N	C

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DHAi−3426FCZZ	572 542 2306	31- 52	AQ	EG	N	C
〃	572 542 2306	35- 20	AQ	EG	N	C
DHAi−3441FCZZ	572 542 2307	37- 5	AV	FG	N	C
DHAi−3443FC12	572 542 2325	35- 8	AY	FQ	N	C
DHAi−3453FCZZ		38- 8	AV	FG	N	C
DHAi−3454FCZZ		38- 7	AK	DX	N	C
DHAi−3465FCZZ	572 542 2309	34- 21	AV	FG	N	C
DUNT−7136FCA1	572 685 2220	37- 31	AN	EQ	N	E
DUNT−7187DS11	572 685 2242	13- 901	BW	RJ	N	E
〃	572 685 2242	14- 901	BW	RJ	N	E
〃	572 685 2242	15- 901	BW	RJ	N	E
DUNT−7187DSZZ	572 685 2181	13- 901	BV	RB	N	E
〃	572 685 2181	14- 901	BV	RB	N	E
〃	572 685 2181	15- 901	BV	RB	N	E
DUNT−7188DS11		19- 901	CE	UF	N	A
〃		20- 901	CE	UF	N	A
DUNT−7188DS12		19- 901	CE	UF	N	A
〃		20- 901	CE	UF	N	A
DUNT−7193DSZZ	572 685 2183	28- 901	BG	GX	N	E
DUNT−7248DSZZ	572 685 2184	6- 901	CM	UW	N	E
〃	572 685 2184	7- 901	CM	UW	N	E
DUNT−7251DSZZ	572 685 2185	23- 901	BZ	TF	N	E
DUNT−7255DSZZ	572 685 2186	36- 9	AZ	FQ	N	E
DUNT−7269FCZZ	572 685 2227	38- 5	CD	UD		E
DUNT−7272DSZZ	572 685 2187	30- 28	CU	VZ	N	E
DUNT−7289DSZZ	572 685 2222	31- 24	AK	DX	N	E
DUNTW7189DS11	572 685 2223	24- 901	CG	UM	N	E
〃	572 685 2223	25- 901	CG	UM	N	E
DUNTW7189DS12	572 685 2234	24- 901	CG	UM	N	E
〃	572 685 2234	25- 901	CG	UM	N	E
DUNTW7189DSZZ	572 685 2188	24- 901	CG	UM	N	E
〃	572 685 2188	25- 901	CG	UM	N	E
【G】						
GCAB−0946FCZ2	572 107 2065	37- 27	AZ	FQ		D
GCAB−0947FCZZ	572 107 2053	37- 2	AT	EZ		D
GCAB−0980FCZ5	572 107 2138	1- 18	BA	FX	N	D
GCAB−0981FCZ5	572 107 2139	27- 28	AZ	FX	N	D
GCAB−0981FCZZ	572 107 2179	27- 28	BB	GD	N	D
GCAB−0982FCZ5	572 107 2140	2- 19	AU	FG	N	D
GCAB−0982FCZZ	572 107 2168	2- 19	AS	EQ	N	D
GCAB−0983FCZ5	572 107 2141	16- 11	AQ	EQ	N	C
GCAB−0983FCZZ	572 107 2169	16- 11	AS	EQ	N	C
GCAB−0984FCZ5	572 107 2142	1- 21	BM	HR	N	D
GCAB−0984FCZZ	572 107 2170	1- 21	BA	FX	N	D
GCAB−0985FCZ5	572 107 2143	1- 19	AP	EQ	N	D
GCAB−0985FCZZ	572 107 2171	1- 19	AQ	EQ	N	D
GCAB−0987FCZ5	572 107 2144	1- 6	AV	FG	N	D
GCAB−0987FCZZ	572 107 2180	1- 6	AU	EZ	N	D
GCAB−0988FCZ5	572 107 2145	1- 3	BC	GJ	N	D
GCAB−0988FCZZ	572 107 2172	1- 3	BE	GN	N	D
GCAB−0989FCZ5	572 107 2146	1- 16	AT	EZ	N	D
GCAB−0989FCZZ	572 107 2181	1- 16	AR	EQ	N	D
GCAB−0990FCZ5	572 107 2147	1- 15	AM	EG	N	D
GCAB−0990FCZZ	572 107 2182	1- 15	AP	EQ	N	D
GCAB−0991FCZ5	572 107 2148	1- 13	AS	EQ	N	D
GCAB−0991FCZZ	572 107 2183	1- 13	AR	EQ	N	D
GCAB−0992FCZ5	572 107 2149	1- 10	AT	EZ	N	D
GCAB−0992FCZZ	572 107 2184	1- 10	AV	FG	N	D
GCAB−0993FCZZ	572 107 2150	1- 8	BA	FX	N	D
GCAB−0994FCZ5	572 107 2151	2- 5	BA	FX	N	D
GCAB−0994FCZZ	572 107 2173	2- 5	AR	EQ	N	D
GCAB−0995FCZ5	572 107 2152	2- 1	AQ	EQ	N	D
GCAB−0995FCZZ	572 107 2185	2- 1	AR	EQ	N	D
GCAB−0996FCZ5	572 107 2153	2- 6	AW	FG	N	D
〃	572 107 2153	3- 12	AW	FG	N	D
GCAB−0996FCZZ	572 107 2186	2- 6	AW	FG	N	D
〃	572 107 2186	3- 12	AW	FG	N	D
GCAB−0997FCZ5	572 107 2154	2- 7	AP	EQ	N	D
GCAB−0997FCZZ	572 107 2187	2- 7	AQ	EQ	N	D
GCAB−0998FCZ5	572 107 2155	2- 3	AP	EQ	N	D
GCAB−0998FCZZ	572 107 2174	2- 3	AG	DX	N	D
GCAB−0999FCZ5	572 107 2156	2- 9	AG	DX	N	D
GCAB−0999FCZZ	572 107 2175	2- 9	AH	DX	N	D
GCAB−1018FCZ5	572 107 2157	1- 1	BF	FG	N	D
GCAB−1018FCZZ	572 107 2176	1- 1	AY	FQ	N	D
GCAB−1019FCZ5	572 107 2158	2- 15	AV	FQ	N	D
GCAB−1019FCZZ	572 107 2188	2- 15	AU	EZ	N	D
GCAB−1020FCZ5	572 107 2159	2- 17	AL	DX	N	D
GCAB−1020FCZZ	572 107 2189	2- 17	AH	DX	N	D
GCAB−1022FCZ5	572 107 2160	2- 16	AQ	EZ	N	D
GCAB−1022FCZZ	572 107 2190	2- 16	AU	EZ	N	D

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			Ex.	Ja.		
GCAB−1023FCZ5	572 107 2161	2- 11	BC	EQ	N	D
GCAB−1023FCZZ	572 107 2177	2- 11	AT	EZ	N	D
GCAB−1024FCZ5	572 107 2162	2- 20	AU	FQ	N	D
GCAB−1024FCZZ	572 107 2191	2- 20	AX	FG	N	D
GCAB−1025FCZ5	572 107 2163	2- 18	AZ	EQ	N	D
GCAB−1025FCZZ	572 107 2178	2- 18	AR	EQ	N	D
GCASP0173FCZ2	572 108 1303	10- 39	BA	FX		C
GCŌVH0211FCZ2	572 110 1305	5- 11	BB	GD	N	D
GCŌVH0212FCZ2	572 110 1306	5- 5	BB	GD	N	D
GCŌVZ0237FCZZ	572 110 1309	36- 106	AZ	FQ	N	D
GLEGG0075FCZZ	572 123 0106	30- 14	AE	DJ		C
【H】						
HPNLC0247FCZ5	572 158 0781	4- 13	BD	GN	N	C
HPNLC0247FCZZ	572 158 0783	4- 13	AV	FG	N	C
HPNLH0249FCZZ	572 158 0758	4- 10	BF	GN		C
【J】						
JHNDM0163FCZ1	572 172 0223	29- 2	AG	DX	N	C
JHNDP0164FCZ3	572 172 0220	10- 1	BL	HL	N	D
JHNDP0167FCZ2	572 172 0224	22- 24	AC	DJ	N	C
JKNBZ0143FCZZ	572 174 0376	25- 6	AD	DJ	N	C
JKNBZ0144FCZZ	572 174 0377	27- 10	AE	DS	N	C
【L】						
LANGF1421FCZZ	572 200 1463	29- 7	AF	DS	N	C
LANGF1422FCZZ	572 200 1464	29- 6	AG	DS	N	C
LANGF1423FCZZ	572 200 1465	6- 19	AH	DX	N	C
LANGT1411FCZZ	572 200 1466	23- 11	AD	DJ	N	C
LBNDJ0002FCZZ	572 201 0032	6- 33	AA	DD		C
LBNDJ0016FCZZ	572 201 0010	38- 11	AA	DD		C
LBNDJ0043FCZ1	572 201 0125	12- 25	AA	DJ		C
〃	572 201 0125	35- 19	AA	DJ		C
〃	572 201 0125	7- 23	AA	DJ		C
LBNDZ0069FCZZ	572 201 0158	1- 23	AD	DJ		C
LBŌSZ2114FCZZ	572 202 0455	30- 16	AK	EB	N	C
LBSHC0355FCZZ	572 204 0502	6- 9	AF	DS	N	C
LBSHC0356FCZZ	572 204 0503	7- 11	AC	DJ	N	C
LBSHZ1001ACZZ	596 204 0015	37- 12	AB	DD		C
LBSHZ1102CCZZ	596 204 0010	3- 9	AC	DD		C
LBSHZ2050SCZZ	595 204 0016	37- 16	AB	DD		C
LDAiU0576FCZZ	572 210 1046	10- 25	AG	DX		C
LDAiU0610FCZZ	572 210 1124	7- 9	AE	DS		C
LDAiU0619FCZ1	572 210 1199	8- 5	AS	EQ		C
LDAiU0639FCZZ	572 210 1219	32- 8	AE	DS	N	C
LDAiU0643FCZZ	572 210 1220	31- 2	AH	DX	N	C
LDAiU0646FCZ5	572 210 1221	4- 1	BF	GN	N	C
LDAiU0646FCZZ	572 210 1229	4- 1	AX	FG	N	C
LDAiU0656FCZZ	572 210 1222	20- 43	AF	DS	N	C
LFiX−0524FCZZ	572 211 0716	17- 27	AC	DJ		C
LFiX−0537FCZZ	572 211 0713	7- 10	AD	DJ		C
LFiX−0545FCZZ	572 211 0738	8- 16	AC	DJ		C
LFiX−0560FCZZ	572 211 0739	37- 23	AF	DS		C
LFiX−0567FCZZ	572 211 0740	37- 4	AD	DJ		C
LFiX−0572FCZ5	572 211 0756	2- 4	AS	EQ	N	D
LFiX−0572FCZZ	572 211 0759	2- 4	AK	DX	N	D
LFRM−1062FCZZ	572 213 2238	23- 5	AP	EQ	N	C
LFRM−1064FCZ1	572 213 2269	19- 10	AS	EZ	N	C
LFRM−1069FCZZ	572 213 2240	24- 21	AL	EB	N	C
LFRM−1073FCZ1	572 213 2257	27- 22	AS	EG	N	C
LFRM−1074FCZZ	572 213 2242	27- 23	AS	EQ	N	C
LFRM−1076FCZZ	572 213 2243	18- 16	AN	EG	N	C
LFRM−1079FCZZ	572 213 2244	27- 13	AF	DS	N	C
LFRM−1080FCZZ	572 213 2245	27- 14	AH	DX	N	C
LHLDR1511FCZ1	572 214 2329	24- 8	BA	FX	N	C
LHLDW0429FCZZ	572 214 0398	34- 16	AB	DD		C
LHLDW0595FCZZ	572 214 0467	9- 13	AC	DD		C
LHLDW1006FCZZ	578 214 0007	34- 15	AA	DD		C
LHLDW1061FCZZ	572 214 0597	23- 30	AB	DD		C
LHLDW1151FCZZ	572 214 1300	31- 22	AB	DJ		C
LHLDW1152FCZZ	572 214 1345	30- 4	AC	DJ		C
〃	572 214 1345	31- 23	AC	DJ		C
LHLDW1154FCZZ	572 214 1321	31- 34	AC	DJ		C
LHLDW1155FCZZ	572 214 1336	23- 8	AC	DJ		C
LHLDW1223FCZZ	572 214 1441	35- 17	AA	DJ		C
LHLDW1226FCZZ	572 214 1450	10- 40	AB	DJ		C
〃	572 214 1450	36- 25	AB	DJ		C
LHLDW1499FCZZ	572 214 2204	37- 19	AC	DJ		C
LHLDW1545FCZZ	572 214 2326	35- 18	AB	DJ	N	C
LHLDW2087SCZZ	595 214 0101	37- 41	AA	DD	N	C
LHLDW5031BCZZ	588 214 0029	6- 34	AA	DD		C
LHLDZ1085FCZ2	572 214 2205	3- 8	AD	DJ		C
LHLDZ1377FCZZ	572 214 1795	10- 36	AD	DJ		C
LHLDZ1381FCZZ	572 214 1799	7- 31	AL	EB		C

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			Ex.	Ja.		
LHLDZ1399FCZZ	572 214 1949	25- 30	AC	DJ		C
LHLDZ1458FCZZ	572 214 2206	4- 9	AF	DS		C
LHLDZ1459FCZZ	572 214 2207	4- 6	AE	DS		C
LHLDZ1493FCZZ	572 214 2211	37- 6	AF	DS		C
LHLDZ1494FCZZ	572 214 2212	37- 3	AF	DS		C
LHLDZ1505FCZZ	572 214 2213	7- 4	AC	DJ		C
LHLDZ1508FCZZ	572 214 2330	33- 1	AW	FG	N	C
LHLDZ1509FCZZ	572 214 2331	19- 26	AF	DS	N	C
LHLDZ1512FCZZ	572 214 2332	24- 36	AR	EQ	N	C
LHLDZ1513FCZZ	572 214 2333	24- 22	AD	DJ	N	C
LHLDZ1514FCZZ	572 214 2334	16- 16	AK	DX	N	C
LHLDZ1517FCZZ	572 214 2335	11- 27	AE	DS	N	C
LHLDZ1519FCZZ	572 214 2336	20- 33	AW	FG	N	C
LHLDZ1520FCZZ	572 214 2337	15- 30	AC	DJ	N	C
LHLDZ1521FCZZ	572 214 2338	13- 20	AE	DJ	N	C
LHLDZ1523FCZZ	572 214 2339	13- 27	AH	DX	N	C
LHLDZ1524FCZZ	572 214 2340	13- 1	AK	DX	N	C
LHLDZ1525FCZZ	572 214 2341	31- 4	AG	DJ	N	C
LHLDZ1539FCZZ	572 214 2343	19- 29	AD	DJ	N	C
LHLDZ1546FCZZ	572 214 2327	29- 22	AC	DJ	N	C
LHLDZ1547FCZZ	572 214 2344	1- 30	AD	DJ	N	C
〃	572 214 2344	38- 26	AD	DJ	N	C
LPiN-0277FCZZ	572 218 0350	1- 26	AB	DJ		C
LPiNS0014QSBZ	572 218 0635	4- 18	AF	DS	N	C
LPiNS0014QSCZ	572 218 0636	4- 17	AF	DS	N	C
LPiNS0096FCZZ	572 218 0079	17- 12	AB	DD		C
〃	572 218 0079	18- 7	AB	DD		C
〃	572 218 0079	21- 5	AB	DD		C
〃	572 218 0079	23- 19	AB	DD		C
〃	572 218 0079	27- 32	AB	DD		C
LPiNS0133FCZZ	572 218 0086	12- 4	AA	DD		C
〃	572 218 0086	15- 15	AA	DD		C
〃	572 218 0086	25- 4	AA	DD		C
LPiNS0155FCZZ	572 218 0052	15- 6	AA	DD		C
〃	572 218 0052	16- 35	AA	DD		C
〃	572 218 0052	17- 13	AA	DD		C
LPiNS0165FCZZ	572 218 0087	28- 28	AB	DD		C
LPiNS0258FCZZ	572 218 0329	28- 21	AA	DD		C
LPiNS0280FCZZ	572 218 0367	5- 9	AD	DJ		C
LPiNS0320FCZZ	572 218 0546	27- 35	AB	DJ		C
LPiNS0327FCZZ	572 218 0605	27- 34	AC	DJ		C
LPiNS7062SCZZ	577 218 0001	10- 9	AA	DD		C
LPLTM2573FCZ1	572 221 2384	4- 14	AD	DJ		C
LPLTM5027FCZZ	572 221 5629	1- 22	AC	DJ		C
LPLTM5414FCZ1	572 221 7959	10- 6	AR	EQ		C
LPLTM5416FCZZ	572 221 6712	10- 34	AH	DX		C
LPLTM5714FCZZ	572 221 7735	19- 38	AB	DJ		C
〃	572 221 7735	22- 7	AB	DJ		C
LPLTM5787FCZZ	572 221 7890	37- 35	AQ	EQ		C
LPLTM5788FCZZ	572 221 7891	37- 14	AP	EQ		C
LPLTM5789FCZZ	572 221 7892	37- 30	AF	DS		C
LPLTM5892FCZZ	572 221 7898	37- 22	AD	DJ		C
LPLTM5973FCZZ	572 221 8141	33- 16	AQ	EQ	N	C
LPLTM5976FCZZ	572 221 8144	32- 14	AL	EB	N	C
LPLTM5977FCZZ	572 221 8206	38- 17	AS	EQ	N	C
LPLTM5979FCZZ	572 221 8145	31- 33	AV	FG	N	C
LPLTM5980FCZZ	572 221 8146	31- 21	AK	EB	N	C
LPLTM5981FCZZ	572 221 8147	31- 29	AK	DX	N	C
LPLTM5986FCZZ	572 221 8148	19- 14	AD	DJ	N	C
LPLTM5987FCZZ	572 221 8149	20- 9	AG	DX	N	C
LPLTM5989FCZZ	572 221 8150	6- 13	AQ	EQ	N	C
LPLTM5991FCZZ	572 221 8151	6- 23	AW	FG	N	C
LPLTM5992FCZZ	572 221 8152	7- 22	AK	DX	N	C
LPLTM5996FCZ1	572 221 8153	24- 26	AN	EG	N	C
LPLTM6003FCZZ	572 221 8154	23- 24	AD	DJ	N	C
LPLTM6016FCZZ	572 221 8155	28- 12	AC	DJ	N	C
LPLTM6025FCZZ	572 221 8156	34- 3	AE	DS	N	C
LPLTM6027FCZZ	572 221 8157	31- 7	AH	DX	N	C
LPLTM6028FCZZ		38- 6	AL	EB	N	C
LPLTM6073FCZZ	572 221 8158	28- 32	AC	DJ	N	C
LPLTM6075FCZ1	572 221 8159	37- 28	AS	EQ	N	C
LPLTM6079FCZZ	572 221 8160	31- 20	AD	DJ	N	C
LPLTM6082FCZZ	572 221 8161	9- 10	AT	EZ	N	C
LPLTM6083FCZZ	572 221 8162	9- 7	AV	FG	N	C
LPLTM6084FCZZ	572 221 8163	9- 2	AK	EB	N	C
LPLTM6085FCZZ	572 221 8164	9- 9	AN	EG	N	C
LPLTM6086FCZZ	572 221 8165	9- 12	AK	DX	N	C
LPLTM6087FCZZ	572 221 8166	9- 3	AN	EG	N	C
LPLTM6089FCZZ	572 221 8167	30- 10	AK	DX	N	C
LPLTM6090FCZZ	572 221 8168	34- 13	AE	DJ	N	C
LPLTM6092FCZ1	572 221 8169	1- 9	AM	EG	N	C

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			Ex.	Ja.		
LPLTM6093FCZZ	572 221 8170	29- 5	AM	EG	N	C
LPLTM6095FCZZ	572 221 8171	9- 5	AC	DJ	N	C
LPLTM6096FCZZ	572 221 8172	6- 17	AF	DS	N	C
LPLTM6097FCZZ	572 221 8173	29- 8	AD	DJ	N	C
LPLTM6100FCZZ	572 221 8174	29- 4	AM	EG	N	C
LPLTM6102FCZ1	572 221 8175	31- 45	AN	EG	N	C
LPLTM6108FCZZ	572 221 8176	37- 29	AF	DS	N	C
LPLTM6109FCZZ	572 221 8195	24- 43	AD	DJ	N	C
LPLTM6112FCZZ	572 221 8196	22- 27	AH	DX	N	C
LPLTP5411FCZZ	572 221 6755	10- 13	AQ	EQ		C
LPLTP5412FCZZ	572 221 6756	10- 5	AP	EQ		C
LPLTP5413FCZZ	572 221 6757	10- 18	AF	DS		C
LPLTP5998FCZZ	572 221 8177	25- 10	BB	GD	N	C
LPLTP6019FCZZ	572 221 8178	16- 6	AD	DJ	N	C
LPLTP6020FCZZ	572 221 8179	13- 14	AF	DS	N	C
LPLTP6098FCZZ	572 221 8180	21- 3	AD	DJ	N	C
LRALM0183FCZZ	572 223 0285	7- 36	AG	DX		C
LRALM0184FCZZ	572 223 0286	7- 35	AG	DX		C
LRALM0201FCZZ	572 223 0299	6- 26	AN	EG	N	C
LRALM0202FCZZ	572 223 0300	29- 19	AN	EG	N	C
LSŌU-0026QSCZ	572 226 0696	13- 4	BA	FX	N	C
LSŌU-0189FCZ5	572 226 0697	13- 21	AT	EZ	N	C
LSŌU-0189FCZZ	572 226 0700	13- 21	AU	EZ	N	C
LSŌU-0190FCZ5	572 226 0698	13- 10	AV	FG	N	C
LSŌU-0190FCZZ	572 226 0701	13- 10	AT	EZ	N	C
LSŌU-0193FCZ5	572 226 0699	13- 8	AN	EQ	N	C
LSŌU-0193FCZZ	572 226 0710	13- 8	AP	EQ	N	C
LSTPF0172FCZ1	572 230 0380	24- 40	AA	DJ		C
LSTPP0011QSZZ	578 230 0043	22- 21	AC	DJ		C
LSTPP0274FCZZ	572 230 0326	16- 26	AA	DD		C
〃	572 230 0326	17- 10	AA	DD		C
LSTPP0275FCZZ	572 230 0327	16- 15	AE	DS		C
LSTPP0314FCZZ	572 230 0395	10- 23	AA	DJ		C
LSTPP0366FCZZ	572 230 0537	14- 19	AD	DJ	N	C
LSTYM0261FCZZ	572 231 0527	8- 11	AB	DJ		C
LSTYM0293FCZZ	572 231 0595	21- 28	AP	EQ	N	C
LSTYM0295FCZZ	572 231 0596	15- 38	AL	EB	N	C
LSTYM0298FCZZ	572 231 0597	27- 15	AH	DX	N	C
LSTYM0301FCZZ	572 231 0598	27- 27	AF	DS	N	C
LSUPP0076FCZZ	572 233 0103	37- 20	AA	DD		C
LSUPP0118FCZZ	572 233 0143	37- 18	AB	DJ		C
LSUPP0126FCZZ	572 233 0156	31- 35	AC	DJ	N	C
〃	572 233 0156	31- 5	AC	DJ	N	C
LSUPP1001ACZZ	596 233 0001	34- 12	AB	DD		C
LX-BZ0004QSZZ	572 970 1917	7- 37	AB	DD		C
LX-BZ0036GCZZ	578 970 0190	20- 37	AC	DD		C
LX-BZ0049FCZZ	572 970 0353	7- 15	AB	DD		C
LX-BZ0071FCZZ	572 970 0435	30- 6	AA	DD		C
LX-BZ0324FCZZ	572 970 0197	7- 12	AA	DD		C
LX-BZ0531FCZZ	572 970 0220	10- 37	AA	DD		C
LX-BZ0555FCZZ	572 970 0234	36- 14	AB	DD		D
LX-BZ0736FCZZ	572 970 1499	24- 20	AB	DD		C
LX-BZ0776FCZZ	572 970 1677	2- 32	AG	DS		C
LX-BZ0833FCZZ	572 970 1816	10- 22	AC	DD		C
〃	572 970 1816	31- 47	AC	DD		C
LX-BZ0840FCZZ	572 970 1818	28- 37	AC	DD		C
LX-BZ0850FCZZ	572 970 1977	11- 7	AC	DD		C
〃	572 970 1977	33- 10	AC	DD		C
LX-BZ0855FCZZ	572 970 1980	30- 17	AC	DD		C
〃	572 970 1980	38- 19	AC	DD		C
LX-BZ0880FCZZ	572 970 1990	9- 6	AB	DD		C
LX-BZ0884FCZZ	572 970 1964	10- 8	AB	DD		C
LX-BZ0898FCZZ	572 970 2035	30- 15	AC	DD		C
LX-BZ0901FCZZ	572 970 2269	1- 32	AC	DD		C
〃	572 970 2269	38- 28	AC	DD		C
LX-BZ0916FCZZ	572 970 2273	21- 12	AA	DD		C
LX-BZ0924FCZZ	572 970 2061	25- 26	AD	DJ		C
LX-BZ0938FCZZ	572 970 2326	37- 43	AC	DD		C
LX-BZ0944FCZ1	572 970 2578	27- 11	AH	DS	N	C
LX-BZ0949FCZZ	572 970 2559	19- 13	AC	DD	N	C
LX-BZ0959FCZZ	572 970 2560	30- 9	AC	DD	N	C
LX-BZ0960FCZZ	572 970 2520	17- 22	AC	DD		C
〃	572 970 2520	30- 25	AC	DD		C
LX-BZ0962FCZ1	572 970 2566	37- 40	AF	DS	N	C
LX-BZ0963FCZZ	572 970 2579	38- 14	AF	DS	N	C
LX-BZ0965FCZZ	572 970 2581	19- 39	AE	DS	N	C
LX-BZ1022LCZZ	594 970 0327	38- 3	AB	DD		C
LX-BZ3006SC0S	541 970 5148	24- 51	AA	DD		C
〃	541 970 5148	25- 34	AA	DD		C
LX-LZ0022FCZZ	572 973 0001	31- 50	AB	DD		C
LX-NZ0088FCZZ	572 980 0102	1- 40	AC	DD		C

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			Ex.	Ja.		
LX-WZ0042FCZ1	572 990 0422	27- 7	AA	DD		C
LX-WZ0326FCZZ	572 990 0386	36- 16	AA	DD		D
LX-WZ0443FCZZ	572 990 0540	24- 6	AB	DD		C
〃	572 990 0540	31- 51	AB	DD		C
〃	572 990 0540	31- 53	AB	DD		C
〃	572 990 0540	33- 11	AB	DD		C
〃	572 990 0540	37- 17	AB	DD		C
LX-WZ0445FCZ1	572 990 0549	20- 61	AC	DD	N	C
〃	572 990 0549	21- 9	AC	DD	N	C
LX-WZ0448FCZZ	572 990 0547	25- 42	AB	DD	N	C
LX-WZ2011SCZZ	595 990 0031	15- 41	AA	DD		C
〃	595 990 0031	20- 45	AA	DD		C
【M】						
MARMP0147FCZ2	572 240 0446	3- 10	AK	DX		C
MARMP0148FCZ2	572 240 0447	3- 5	AK	DX		C
MARMP0293FCZ1	572 240 0473	11- 4	AL	EB	N	C
MARMP0294FCZ1	572 240 0474	14- 31	AM	EG	N	C
MARMP0295FCZZ	572 240 0475	15- 23	AF	DS	N	C
MARMP0297FCZZ	572 240 0488	16- 23	AB	DJ	N	C
MARMP0298FCZZ	572 240 0476	27- 26	AC	DJ	N	C
MARMP0301FCZ1	572 240 0471	24- 7	AE	DJ	N	C
MCAMP0106FCZZ	572 241 0146	21- 4	AC	DJ	N	C
MHNG-0170FCZ1	572 246 0256	5- 8	AE	DS		C
MHNG-0210FCZZ	572 246 0426	5- 3	AQ	EZ		C
MHNG-0211FCZZ	572 246 0427	5- 4	AQ	EZ		C
MLEVF0845FCZ1	572 248 1469	25- 32	AE	DS	N	C
MLEVF0846FCZ1	572 248 1470	25- 28	AE	DS	N	C
MLEVP0035QSE1	572 248 1225	13- 7	AC	DJ		C
MLEVP0695FCZZ	572 248 0881	11- 26	AC	DJ		C
MLEVP0754FCZZ	572 248 1063	10- 16	AF	DS		C
MLEVP0755FCZ1	572 248 1206	10- 14	AE	DJ		C
MLEVP0781FCZZ	572 248 1309	27- 16	AD	DJ		C
MLEVP0786FCZZ	572 248 1311	25- 33	AC	DD		C
MLEVP0787FCZZ	572 248 1312	25- 36	AC	DD		C
MLEVP0840FCZZ	572 248 1471	32- 13	AD	DJ	N	C
MLEVP0841FCZZ	572 248 1472	32- 7	AG	DX	N	C
MLEVP0842FCZZ	572 248 1473	23- 16	AE	DS	N	C
MLEVP0843FCZ1	572 248 1474	20- 17	AC	DJ	N	C
MLEVP0848FCZZ	572 248 1475	25- 8	AD	DJ	N	B
MLEVP0850FCZZ	572 248 1476	28- 33	AG	DX	N	C
MLEVP0851FCZZ	572 248 1477	28- 14	AE	DS	N	C
MLEVP0852FCZZ	572 248 1478	15- 24	AG	DS	N	C
MLEVP0853FCZ1	572 248 1479	16- 7	AF	DS	N	C
MLEVP0854FCZZ	572 248 1480	17- 1	AC	DJ	N	C
MLEVP0857FCZZ	572 248 1481	18- 14	AF	DJ	N	C
MLEVP0863FCZZ	572 248 1482	27- 1	AE	EB	N	C
MLEVP0864FCZZ	572 248 1483	36- 32	AD	DJ	N	C
MLEVP0865FCZZ	572 248 1484	20- 23	AC	DS	N	C
MLEVP0871FCZZ	572 248 1486	14- 20	AD	DJ	N	C
MLEVP0875FCZZ	572 248 1487	24- 5	AF	DS	N	C
MLNKP0027FCZZ	572 251 0075	14- 12	AE	DJ	N	C
MLNKP0029FCZZ	572 251 0076	15- 27	AD	DJ	N	C
MSLi-0138FCZZ	572 256 0169	8- 10	AC	DJ		C
MSLi-0140FCZZ	572 256 0186	27- 12	BA	FX	N	C
MSPRC2114FCZZ	572 258 1969	13- 22	AB	DJ		C
MSPRC2616FCZZ	572 258 2929	16- 25	AC	DJ		C
MSPRC2631FCZZ	572 258 2943	10- 15	AC	DJ		C
MSPRC2640FCZZ	572 258 2951	10- 17	AC	DJ		C
MSPRC2642FCZ1	572 258 3297	10- 26	AB	DJ		C
MSPRC2645FCZZ	572 258 2956	33- 9	AB	DJ		C
MSPRC2654FCZ1	572 258 3067	27- 8	AB	DJ		C
MSPRC2669FCZZ	572 258 2971	10- 33	AB	DJ		C
MSPRC2731FCZ1	572 258 3490	18- 8	AC	DJ		C
MSPRC3029FCZZ	572 258 4120	32- 9	AC	DJ	N	C
MSPRC3044FCZ1	572 258 4307	19- 19	AD	DJ	N	C
MSPRC3047FCZZ	572 258 4122	19- 9	AB	DJ	N	C
MSPRC3054FCZZ	572 258 4123	25- 27	AE	DJ	N	C
MSPRC3059FCZZ	572 258 4124	24- 24	AC	DJ	N	C
MSPRC3066FCZZ	572 258 4125	15- 29	AC	DJ	N	C
MSPRC3073FCZZ	572 258 4126	11- 28	AC	DJ	N	C
MSPRC3074FCZZ	572 258 4127	11- 6	AC	DJ	N	C
MSPRC3077FCZ1	572 258 4189	21- 10	AC	DJ	N	C
MSPRC3085FCZ1	572 258 4166	17- 37	AC	DJ	N	C
MSPRC3104FCZZ	572 258 4130	18- 20	AD	DJ	N	C
MSPRC3106FCZZ	572 258 4195	20- 60	AC	DJ	N	C
MSPRC3109FCZZ	572 258 4131	19- 27	AC	DJ	N	C
MSPRC3122FCZZ	572 258 4132	15- 9	AD	DJ	N	C
MSPRC3160FCZZ	572 258 4184	24- 49	AC	DJ	N	C
MSPRC3169FCZZ	572 258 4133	11- 14	AC	DJ	N	C
MSPRD3035FCZZ	572 258 4134	32- 6	AC	DJ	N	C
MSPRD3040FCZZ	572 258 4135	23- 25	AC	DJ	N	C

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			Ex.	Ja.		
MSPRD3041FCZZ	572 258 4136	23- 23	AD	DJ	N	C
MSPRD3042FCZZ	572 258 4137	23- 22	AD	DJ	N	C
MSPRD3045FCZZ	572 258 4138	19- 16	AD	DJ	N	C
MSPRD3046FCZZ	572 258 4139	19- 8	AD	DJ	N	C
MSPRD3057FCZZ	572 258 4140	25- 7	AC	DJ	N	B
MSPRD3058FCZZ	572 258 4141	25- 16	AC	DJ	N	C
MSPRD3067FCZZ	572 258 4142	17- 2	AC	DJ	N	C
MSPRD3084FCZZ	572 258 4143	11- 5	AD	DJ	N	C
MSPRD3093FCZ1	572 258 4144	16- 9	AC	DJ	N	C
MSPRD3097FCZZ	572 258 4145	18- 15	AC	DJ	N	C
MSPRD3099FCZ1	572 258 4185	15- 25	AC	DJ	N	C
MSPRD3100FCZZ	572 258 4147	14- 11	AC	DJ	N	C
MSPRD3102FCZZ	572 258 4148	27- 19	AC	DJ	N	C
MSPRD3103FCZZ	572 258 4149	27- 21	AD	DJ	N	C
MSPRD3125FCZZ	572 258 4150	31- 46	AD	DJ	N	C
MSPRD3163FCZZ	572 258 4151	27- 25	AC	DJ	N	C
MSPRP2825FCZZ	572 258 3919	8- 12	AC	DJ		C
MSPRP3009FCZZ	572 258 3922	4- 26	AD	DJ		C
MSPRP3030FCZZ	572 258 4167	32- 2	AD	DJ	N	C
MSPRP3031FCZZ	572 258 4168	32- 3	AF	DS	N	C
MSPRP3033FCZZ	572 258 4169	32- 4	AG	DX	N	C
MSPRP3034FCZZ	572 258 4170	32- 5	AG	DX	N	C
MSPRP3036FCZZ	572 258 4171	34- 18	AE	DJ	N	C
MSPRP3037FCZZ	572 258 4172	34- 11	AD	DJ	N	C
MSPRP3038FCZZ	572 258 4173	23- 9	AC	DJ	N	C
MSPRP3052FCZZ	572 258 4174	24- 12	AG	DS	N	C
MSPRP3056FCZZ	572 258 4175	24- 9	AF	DS	N	C
〃	572 258 4175	27- 4	AF	DS	N	C
MSPRP3081FCZZ	572 258 4176	28- 11	AF	DS	N	C
MSPRP3082FCZZ	572 258 4177	28- 8	AF	DS	N	C
MSPRP3105FCZZ	572 258 4178	17- 33	AC	DJ	N	C
MSPRP3164FCZZ	572 258 4179	29- 21	AD	DJ	N	C
〃	572 258 4179	34- 5	AD	DJ	N	C
MSPRP3168FCZZ		38- 2	AC	DJ	N	C
MSPRT1563FCZZ	572 258 0701	3- 3	AC	DD		C
MSPRT2414FCZZ	572 258 2452	20- 24	AC	DJ		C
〃	572 258 2452	24- 45	AC	DJ		B
〃	572 258 2452	25- 11	AC	DJ		B
MSPRT3032FCZZ	572 258 4152	32- 15	AC	DJ	N	C
MSPRT3049FCZZ	572 258 4153	20- 18	AC	DJ	N	C
MSPRT3050FCZZ	572 258 4154	21- 20	AC	DJ	N	C
MSPRT3063FCZZ	572 258 4155	26- 5	AC	DJ	N	C
MSPRT3064FCZZ	572 258 4156	28- 18	AD	DJ	N	C
MSPRT3092FCZZ	572 258 4192	16- 34	AC	DJ	N	C
MSPRT3094FCZ1	572 258 4157	16- 4	AC	DJ	N	C
〃	572 258 4157	17- 23	AC	DJ	N	C
MSPRT3098FCZZ	572 258 4158	7- 21	AC	DJ	N	C
MSPRT3110FCZ1	572 258 4180	28- 34	AC	DJ	N	C
MSPRT3121FCZ1	572 258 4306	14- 2	AC	DJ	N	C
MSPRT3165FCZZ	572 258 4162	20- 48	AC	DJ	N	C
MSPRT3190FCZZ	572 258 4186	24- 50	AF	DS	N	C
【N】						
NBLTH0239FCZZ	572 271 0408	11- 20	AF	DX		C
NBLTH0371FCZ1	572 271 0866	7- 20	AF	DS	N	B
NBLTH0373FCZZ	572 271 0854	18- 4	AF	DS	N	C
NBLTH0374FCZZ	572 271 0855	28- 25	AE	DJ	N	C
NBLTH0376FCZZ	572 271 0856	17- 29	AF	DS	N	C
NBLTT7029XCZZ	578 271 0045	14- 26	AG	DS		C
NBRGC0188FCZZ	572 272 0243	16- 28	AB	DD		C
〃	572 272 0243	17- 15	AB	DD		C
〃	572 272 0243	28- 20	AB	DD		C
NBRGC0280FCZZ	572 272 0272	14- 34	AB	DD		C
NBRGC0319FCZ1	572 272 0482	21- 13	AC	DJ		C
NBRGC0387FCZ1	572 272 0471	11- 11	AC	DJ		C
NBRGC0504FCZZ	572 272 0467	15- 7	AC	DJ		C
NBRGC0651FCZZ	572 272 0722	12- 10	AD	DJ		C
NBRGC0672FCZZ	572 272 0809	23- 6	AE	DJ	N	C
NBRGC0683FCZZ	572 272 0815	28- 10	AC	DJ	N	C
NBRGM0096FCZ1	572 272 0487	14- 9	AC	DJ		C
〃	572 272 0487	15- 18	AC	DJ		C
NBRGP0012QSZZ	578 272 0139	25- 2	AC	DJ		C
NBRGP0604FCZZ	572 272 0684	18- 2	AD	DJ		C
NBRGP0626FCZZ	572 272 0678	10- 30	AC	DJ		C
〃	572 272 0678	16- 24	AC	DJ		C
〃	572 272 0678	17- 11	AC	DJ		C
〃	572 272 0678	18- 9	AC	DJ		C
NBRGP0664FCZZ	572 272 0725	20- 25	AD	DJ		C
NBRGP0674FCZZ	572 272 0816	19- 37	AE	DJ	N	C
NBRGP0675FCZZ	572 272 0817	19- 5	AH	DX	N	B
NBRGP0676FCZ1	572 272 0891	19- 20	AC	DJ	N	C
NBRGP0677FCZZ	572 272 0819	19- 2	AC	DJ	N	B

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			Ex.	Ja.		
NBRGP0678FCZZ	572 272 0820	19- 4	AF	DS	N	B
NBRGP0682FCZZ	572 272 0821	18- 6	AC	DJ	N	C
NBRGP0687FCZZ	572 272 0822	22- 28	AG	DS	N	C
NBRGP0688FCZ1	572 272 0823	22- 20	AD	DJ	N	C
NBRGY0466FCZZ	572 272 0425	7- 26	AK	EB		C
NBRGY0646FCZZ	572 272 0784	24- 38	AS	EQ		B
NBRGY0681FCZZ	572 272 0824	25- 15	AX	FG	N	B
NBRGY2122SCZZ	595 272 0047	12- 2	AB	DD		C
NCPL−0049FCBZ	572 274 0071	11- 16	AT	EZ		C
NCPL−0049FCZZ	572 274 0068	14- 29	AH	DX		C
NCPL−0056FCZZ	572 274 0077	23- 14	AF	DS	N	B
NFANP0068FCZZ	572 277 0120	33- 4	BB	GD	N	B
NFANP0070FCZZ	572 277 0121	1- 27	AZ	FX	N	B
NFANP0071FCZZ	572 277 0122	1- 29	AZ	FX	N	B
〃	572 277 0122	38- 25	AZ	FX	N	B
NFANP0072FCZZ	572 277 0123	31- 42	BA	FX	N	B
NGERH0111FCWZ	572 281 2095	12- 21	AD	DJ		C
〃	572 281 2095	16- 22	AD	DJ		C
〃	572 281 2095	17- 8	AD	DJ		C
NGERH0193FCZZ	572 281 0318	10- 10	AB	DD		C
NGERH0317FCZZ	572 281 0525	15- 5	AC	DJ		C
NGERH0484FCZZ	572 281 0654	28- 24	AB	DD		C
NGERH0780FCZ1	572 281 1074	24- 34	AE	DS		B
NGERH0866FCZZ	572 281 0955	12- 23	AC	DD		B
〃	572 281 0955	25- 5	AC	DD		C
〃	572 281 0955	28- 26	AC	DD		C
NGERH0867FCZZ	572 281 0956	12- 22	AC	DD		C
NGERH1062FCZZ	572 281 1253	24- 33	AE	DS		B
NGERH1245FCZZ	572 281 1588	17- 7	AF	DS		C
NGERH1252FCZZ	572 281 1595	12- 16	AD	DJ		C
NGERH1305FCZZ	572 281 1867	26- 6	AK	DX		B
NGERH1383FCZZ	572 281 2099	15- 17	AD	DJ		C
NGERH1496FCZZ	572 281 2321	12- 20	AE	DJ	N	C
NGERH1497FCZZ	572 281 2322	12- 14	AE	DS	N	B
NGERH1499FCZZ	572 281 2315	20- 44	AG	DX	N	B
NGERH1500FCZZ	572 281 2323	20- 21	AD	DJ	N	B
NGERH1501FCZZ	572 281 2324	21- 24	AK	EB	N	B
NGERH1502FCZZ	572 281 2325	21- 23	AD	DJ	N	C
NGERH1503FCZZ	572 281 2326	21- 19	AC	DJ	N	C
NGERH1504FCZZ	572 281 2327	21- 17	AD	DJ	N	C
NGERH1505FCZZ	572 281 2328	21- 22	AD	DJ	N	C
NGERH1507FCZZ	572 281 2316	24- 39	AT	EZ	N	B
NGERH1509FCZZ	572 281 2329	26- 9	AE	DJ	N	A
NGERH1510FCZZ	572 281 2330	12- 24	AD	DJ	N	B
NGERH1511FCZZ	572 281 2331	15- 11	AE	DJ	N	C
NGERH1525FCZZ	572 281 2332	21- 8	AD	DJ	N	C
NGERH1526FCZZ	572 281 2333	15- 8	AE	DJ	N	C
NGERH1529FCZZ	572 281 2337	22- 9	AC	DJ	N	C
NGERH1530FCZ1	572 281 2320	30- 5	AK	EB	N	C
NGERH1531FCZZ	572 281 2334	28- 5	AD	DJ	N	C
NGERH1536FCZZ	572 281 2335	15- 10	AC	DJ	N	C
NGERK1272FCZ1	572 281 1834	10- 27	AF	DS		C
NGERP1385FCZZ	578 281 0358	13- 16	AF	DS		C
NGERR1386FCZZ	572 281 2187	13- 18	AE	DJ		C
NPLYZ0005QSZZ	572 284 0700	7- 32	AG	DX		C
NPLYZ0006QSZZ	572 284 0701	7- 33	AD	DJ		C
NPLYZ0013QSZZ	578 284 0054	7- 13	AL	EB		C
NPLYZ0146FCZZ	572 284 0097	28- 27	AB	DD		C
NPLYZ0352FCZZ	572 284 0725	18- 5	AE	DJ		C
NPLYZ0365FCZZ	572 284 0788	11- 19	AC	DJ		C
NPLYZ0398FCZZ	572 284 0819	14- 25	AC	DJ		C
NPLYZ0401FCZZ	572 284 0876	7- 38	BB	GD	N	C
NPLYZ0402FCZZ	572 284 0871	28- 9	AD	DJ	N	C
NPLYZ0403FCZZ	572 284 0872	17- 30	AD	DJ	N	C
NPLYZ0404FCZZ	572 284 0873	14- 30	AE	DJ	N	C
NPLYZ0409FCZZ	572 284 0874	11- 15	AL	EB	N	C
NRŌLP0896FCZZ	572 287 1092	16- 2	AC	DD		C
〃	572 287 1092	17- 21	AC	DD		C
NRŌLP1060FCZZ	572 287 1396	14- 4	AF	DS		C
NRŌLP1403FCZZ	572 287 2391	18- 1	AR	FQ	N	C
NRŌLP1408FCZZ	572 287 2392	32- 10	AD	DJ	N	C
NRŌLP1432FCZZ	572 287 2393	28- 17	AE	DJ	N	C
NRŌLR1311FCZZ	572 287 2165	14- 28	AN	EG		B
〃	572 287 2165	15- 35	AN	EG		B
NRŌLR1391FCZZ	572 287 2368	19- 3	AY	FQ	N	A
NRŌLR1392FCZZ	572 287 2394	20- 19	BA	FX	N	A
NRŌLR1394FCZ1	572 287 2395	25- 1	AT	EZ	N	C
NRŌLR1395FCZZ	572 287 2396	24- 37	BN	HZ	N	A
NRŌLR1396FCZZ	572 287 2397	25- 14	BH	HV	N	A
NRŌLR1398FCZ1	572 287 2398	28- 22	AR	EQ	N	C
NRŌLR1399FCZ1	572 287 2399	28- 29	AR	EQ	N	C
NRŌLR1400FCZZ	572 287 2400	15- 1	AS	EZ	N	C
NRŌLR1401FCZZ	572 287 2401	17- 14	AS	EQ	N	C
NRŌLR1402FCZZ	572 287 2402	18- 10	AU	EZ	N	C
NRŌLR1406FCZZ	572 287 2408	16- 27	AM	EG	N	C
NRŌLR1411FCZZ	572 287 2403	11- 17	AK	EB	N	B
〃	572 287 2403	17- 42	AK	EB	N	B
NRŌLR1428FCZZ	572 287 2369	11- 21	AK	DX	N	B
〃	572 287 2369	14- 27	AK	DX	N	B
NRŌLR1429FCZZ	572 287 2404	17- 16	AS	EQ	N	C
NSFTZ1805FCZZ	572 290 1403	3- 1	AE	DS		C
NSFTZ2467FCZZ	572 290 2317	10- 24	AF	DS		C
NSFTZ2591FCZZ	572 290 2727	11- 18	AF	DS		C
NSFTZ2685FCZ1	572 290 2901	30- 20	AL	EB	N	C
NSFTZ2687FCZZ	572 290 2902	12- 17	AK	EB	N	C
NSFTZ2688FCZZ	572 290 2903	12- 3	AL	EB	N	C
NSFTZ2689FCZZ	572 290 2904	19- 24	AR	EQ	N	C
NSFTZ2690FCZ1	572 290 2964	19- 18	AL	EB	N	C
NSFTZ2691FCZZ	572 290 2906	21- 1	AU	EZ	N	C
NSFTZ2694FCZZ	572 290 2907	7- 16	AP	EQ	N	C
NSFTZ2697FCZZ	572 290 2908	27- 20	AN	EQ	N	C
NSFTZ2700FCZZ	572 290 2909	11- 12	AQ	EQ	N	C
NSFTZ2701FCZZ	572 290 2910	14- 24	AK	DX	N	C
NSFTZ2703FCZZ		16- 33	AF	DS	N	C
NSFTZ2704FCZZ	572 290 2911	16- 3	AL	EB	N	C
〃	572 290 2911	17- 24	AL	EB	N	C
NSFTZ2707FCZZ	572 290 2912	14- 3	AH	DX	N	C
NSFTZ2712FCZ1	572 290 2963	20- 31	AN	EG	N	C
NSFTZ2713FCZZ	572 290 2914	28- 30	AK	DX	N	C
NSFTZ2730FCZZ	572 290 2915	21- 7	AK	EB	N	C
NSFTZ2736FCZZ	572 290 2916	22- 25	AP	EQ	N	C
NSFTZ2738FCZZ	572 290 2917	37- 45	AD	DJ	N	C
【P】						
PBŌX−0131FCZZ	572 307 0477	34- 4	AU	EZ	N	C
PBRSR0218FCZ1	572 310 0367	28- 16	AH	DX	N	B
PBRSR0219FCZ1	572 310 0368	27- 30	AG	DX	N	B
PBRSR0222FCZZ	572 310 0369	19- 34	AK	DX	N	B
PBRSR0223FCZ1	572 310 0380	19- 35	AL	EB	N	B
PBRSR0224FCZZ	572 310 0371	24- 48	AH	DX	N	B
PCAPH0009YSZZ	578 312 0026	20- 16	AC	DJ		C
PCAPH0010GCZZ	578 312 0023	49- 101	AD	DJ		C
〃	578 312 0023	53- 1	AD	DJ		C
〃	578 312 0023	58- 1	AD	DJ		C
PCAPH0082FCZZ	572 312 0079	29- 1	AD	DJ	N	B
PCASZ0298FCZZ	572 315 0228	20- 27	AQ	EQ	N	C
PCASZ0299FCZZ	572 315 0229	11- 1	AF	DS	N	C
PCLC−0297FCZZ	572 316 0390	12- 5	AU	FG		B
PCLC−0298FCZZ	572 316 0391	12- 13	AT	EZ		B
〃	572 316 0391	15- 19	AT	EZ		B
PCLC−0316FCZ1	572 316 0424	15- 34	AR	EQ	N	B
〃	572 316 0424	17- 43	AR	EQ	N	B
PCLC−0317FCZZ	572 316 0425	14- 10	AR	EQ	N	B
PCLC−0318FCZZ	572 316 0426	20- 22	AC	DJ	N	B
PCLC−0321FCZZ	572 316 0428	11- 8	AT	EZ	N	B
PCLR−0441FCZZ	572 318 0490	30- 24	AK	DX		C
PCLR−0442FCZZ	572 318 0491	16- 32	AD	DJ		C
PCLR−0450FCZZ	572 318 0529	17- 28	AD	DJ		C
PCLR−0474FCZZ	572 318 0593	21- 14	AC	DJ	N	C
PCLR−0475FCZZ	572 318 0594	24- 10	AA	DJ	N	C
〃	572 318 0594	27- 5	AA	DJ	N	C
PCLR−0477FCZZ	572 318 0595	26- 10	AE	DJ	N	C
PCLR−0479FCZZ	572 318 0592	28- 36	AC	DJ	N	C
PCŌVP0911FCZ2	572 323 2321	2- 30	AD	DJ	N	D
PCŌVP0941FCZ2	572 323 2322	2- 31	AD	DJ	N	D
PCŌVP1468FCZZ	572 323 1745	53- 2	AD	DJ		D
〃	572 323 1745	58- 2	AD	DJ		D
PCŌVP1509FCZZ	572 323 1968	17- 25	AH	DX		D
PCŌVP1564FCZZ	572 323 2178	37- 1	AF	DS		D
PCŌVP1618FCZ1	572 323 2324	1- 34	AH	DX	N	D
PCŌVP1623FCZ1	572 323 2325	1- 36	AH	DX	N	D
PCŌVP1631FCZZ	572 323 2326	6- 4	AP	EQ	N	C
PCŌVP1632FCZZ	572 323 2327	6- 30	AM	EG	N	C
PCŌVP1634FCZZ	572 323 2328	29- 14	AF	DS	N	C
PCŌVP1636FCZ1	572 323 2355	24- 11	AW	EZ	N	C
PCŌVP1637FCZZ	572 323 2330	24- 18	AN	EQ	N	C
PCŌVP1638FCZZ	572 323 2331	25- 35	AZ	FX	N	C
PCŌVP1639FCZ5	572 323 2332	14- 1	AR	EQ	N	C
PCŌVP1639FCZZ	572 323 2454	14- 1	AQ	EQ	N	C
PCŌVP1640FCZ1	572 323 2455	15- 22	AN	EQ	N	C
PCŌVP1640FCZ5	572 323 2333	15- 22	AL	EB	N	C
PCŌVP1641FCZZ	572 323 2334	15- 26	AG	DS	N	C
PCŌVP1642FCZ1	572 323 2335	14- 18	AL	EB	N	C

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PCŌVP1643FCZ1	572 323 2336	10- 3	AU	EZ	N	D
PCŌVP1646FCZZ	572 323 2337	2- 10	AG	DX	N	D
PCŌVP1648FCZ1	572 323 2338	20- 47	AE	DJ	N	C
PCŌVP1649FCZZ	572 323 2339	20- 15	AN	EG	N	C
PCŌVP1650FCZZ	572 323 2340	24- 1	AT	DX	N	C
PCŌVP1652FCZZ	572 323 2341	13- 26	AN	EG	N	C
PCŌVP1653FCZZ	572 323 2342	13- 3	AN	EQ	N	C
PCŌVP1654FCZZ	572 323 2198	30- 8	AM	EG		C
PCŌVP1656FCZZ	572 323 2343	27- 29	AG	DX	N	D
PCŌVP1658FCZ1	572 323 2344	14- 17	AG	DX	N	C
PCŌVP1659FCZZ	572 323 2345	30- 26	AK	DX	N	C
PCŌVP1660FCZZ	572 323 2346	30- 23	AM	EG	N	C
PCŌVP1697FCZZ	572 323 2347	34- 7	AG	DX	N	C
PCŌVP1698FCZZ	572 323 2348	34- 10	AN	EQ	N	C
PCŌVP1699FCZ1	572 323 2356	34- 2	AN	EQ	N	C
PCŌVP1700FCZZ	572 323 2350	30- 30	AG	DX	N	C
PCŌVP1703FCZ5	572 323 2351	1- 12	AP	EQ	N	C
PCŌVP1703FCZZ	578 323 0281	1- 12	AP	EQ	N	C
PCŌVP1706FCZ5	572 323 2352	1- 39	AE	DJ	N	C
PCŌVP1706FCZZ	572 323 2358	1- 39	AE	DS	N	C
PCŌVP1707FCZZ	572 323 2453	16- 13	AG	DX	N	D
PCUSF0334FCZZ	572 326 0296	8- 9	AP	EQ		C
PCUSS0374FCZZ	572 326 0515	6- 24	AE	DS	N	C
PCUSU0203FCZZ	572 326 0021	8- 6	AE	DS		C
PDUC−0166FCZZ	572 332 0235	33- 17	AX	EZ	N	C
PDUC−0167FCZ2	572 332 0249	32- 16	AK	EB	N	C
PDUC−0168FCZZ	572 332 0237	33- 15	AK	DX	N	C
PDUC−0169FCZ1	572 332 0234	31- 44	AE	DS	N	C
PFiLW0294FCZZ	572 337 0410	4- 22	AE	DS	N	C
PFiLZ0290FCZ1	572 337 0411	33- 2	BA	FX	N	A
PFiLZ0296FCZZ	572 337 0412	1- 38	AQ	EQ	N	A
PFTA−0134FCZ1	572 344 0114	2- 8	AE	DS	N	C
PFTA−0141FCZ5	572 344 0115	1- 7	AK	DX	N	D
PFTA−0141FCZZ	572 344 0118	1- 7	AH	DX	N	D
PFTA−0142FCZZ	572 344 0116	1- 11	AE	DS	N	D
PFTA−0144FCZZ	572 344 0117	2- 21	AE	DJ	N	D
PGiDH1833FCZ1	572 345 3731	10- 11	AC	DJ		C
PGiDH1968FCZZ	572 345 3904	25- 39	AK	EB	N	C
PGiDH2016FCZZ	572 345 3905	34- 14	AC	DJ	N	C
PGiDM1802FCZZ	572 345 2967	17- 18	AK	DX		C
PGiDM1890FCZZ	572 345 3688	7- 5	AC	DJ		C
PGiDM1966FCZ1	572 345 3906	32- 12	AP	EQ	N	C
PGiDM1967FCZZ	572 345 3907	32- 1	AR	EG	N	C
PGiDM1969FCZZ	572 345 3908	27- 24	AN	FQ	N	B
PGiDM1970FCZZ	572 345 3909	27- 2	BB	EQ	N	C
PGiDM1971FCZZ	572 345 3896	28- 7	AY	FQ	N	C
PGiDM1972FCZZ	572 345 3910	28- 15	AY	FQ	N	C
PGiDM1973FCZ5	572 345 3911	15- 36	AS	EQ	N	C
PGiDM1973FCZZ	572 345 3950	15- 36	AU	EZ	N	C
PGiDM1974FCZ1	572 345 3951	14- 6	AV	FG	N	C
PGiDM1974FCZ5	572 345 3912	14- 6	AV	FG	N	C
PGiDM1977FCZZ	572 345 3913	16- 1	AN	EG	N	C
PGiDM1978FCZZ	572 345 3914	17- 35	AW	FG	N	C
PGiDM1979FCZZ	572 345 3915	18- 12	AH	DX	N	C
PGiDM1981FCZZ	572 345 3916	11- 13	AH	DX	N	C
PGiDM1982FCZZ	572 345 3917	17- 44	AF	DS	N	C
PGiDM1983FCZZ	572 345 3918	11- 25	AS	EQ	N	C
PGiDM1984FCZZ	572 345 3919	17- 36	AF	DS	N	C
PGiDM1985FCZZ	572 345 3920	14- 14	AF	DS	N	C
PGiDM1986FCZZ	572 345 3921	13- 25	AF	DS	N	C
PGiDM1987FCZZ	572 345 3922	13- 24	AG	DS	N	C
PGiDM1988FCZZ	572 345 3923	17- 20	AS	EZ	N	C
PGiDM1989FCZZ	572 345 3948	16- 31	AH	DX	N	C
PGiDM1990FCZZ	572 345 3949	16- 30	AH	DX	N	C
PGiDM1991FCZZ	572 345 3924	30- 13	AE	DJ	N	C
PGiDM1992FCZZ	572 345 3925	30- 12	AD	DJ	N	C
PGiDM2007FCZZ	572 345 3926	28- 31	AP	EQ	N	C
PGiDW2015FCZZ	572 345 3897	13- 11	AG	DS	N	C
PGLSP0003QSZZ	572 348 0134	2- 12	BA	FX		D
PGUMS0283FCZ1	572 352 0337	7- 25	AA	DJ		C
PHŌG−0385FCZZ	572 355 0251	34- 9	AB	DD		C
PLNS−0076FCZZ	572 372 0099	22- 6	AL	EB	N	B
PMAGT0015FCZZ	572 373 0029	1- 17	AD	DJ		C
PMiR−0164FCZZ	572 374 0221	8- 13	AP	EQ		C
PMLT−1287FCZZ	572 375 1027	20- 30	AB	DJ	N	C
PMLT−1288FCZ1	572 375 1028	20- 28	AB	DJ	N	C
PMLT−1298FCZ1	572 375 1037	6- 29	AE	DS	N	C
PMLT−1303FCZ1	572 375 1030	16- 19	AD	DJ	N	C
PMLT−1304FCZZ	572 375 1031	16- 10	AC	DJ	N	C
PMLT−1305FCZZ	572 375 1032	16- 8	AC	DJ	N	C
PMLT−1312FCZZ	572 375 1033	22- 26	AB	DJ	N	C

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PMLT−1313FCZZ	572 375 1034	16- 12	AC	DJ	N	C
PMLT−1316FCZZ	572 375 1035	1- 37	AC	DJ	N	C
PMLT−1317FCZZ	572 375 1036	16- 20	AH	DX	N	C
PRDAF0089FCZZ	572 397 0197	58- 4	AU	EZ		C
PRDAR0057FCZ1		58- 3	AF	DS	N	C
PREFL0172FCZZ	572 432 0074	8- 3	AK	DX		C
PRNGP0077FCZZ	572 399 0159	26- 11	AA	DD		C
〃	572 399 0159	28- 23	AA	DD		C
PRNGP0081FCZZ	572 399 0178	17- 31	AA	DJ		C
PRNGP0109FCZZ	572 399 0254	25- 29	AA	DJ	N	C
PRNGP0110FCZZ	572 399 0255	23- 13	AA	DJ	N	C
PSEL−0809FCZZ	572 400 0808	20- 14	AD	DJ	N	C
PSEL−0829FCZ1	572 400 0810	22- 29	AC	DJ	N	C
PSEL−0830FCZZ	572 400 0820	22- 33	AA	DJ	N	C
PSEL−0831FCZZ	572 400 0811	20- 52	AC	DJ	N	C
PSEL−0832FCZZ	572 400 0812	20- 53	AC	DJ	N	C
PSEL−0835FCZ1	572 400 0814	22- 31	AC	DJ	N	C
PSEL−0853FCZZ	572 400 0815	20- 5	AC	DJ	N	C
PSEL−0854FCZZ	572 400 0816	20- 55	AA	DJ	N	C
PSEL−0855FCZZ	572 400 0817	20- 54	AA	DJ	N	C
PSEL−0864FCZZ	572 400 0818	22- 32	AD	DJ	N	C
PSEL−0866FCZZ	572 400 0821	22- 34	AB	DJ	N	C
PSHEP4932FCZ1	572 403 5213	6- 28	AC	DJ		C
PSHEP4968FCZZ	572 403 5231	20- 10	AD	DJ	N	C
PSHEP4970FCZ2	572 403 5232	15- 39	AE	DS	N	C
PSHEP4971FCZZ	572 403 5233	15- 2	AC	DJ	N	C
PSHEP4972FCZ1	572 403 5234	18- 11	AE	DS	N	C
PSHEP4985FCZ1	572 403 5235	18- 19	AE	DJ	N	C
PSHEP4986FCZZ	572 403 5236	21- 27	AC	DJ	N	C
PSHEP4993FCZ2	572 403 5237	15- 40	AE	DS	N	C
PSHEP5006FCZZ	572 403 5238	4- 28	AE	DS	N	C
PSHEP5013FCZ1		36- 10	⁎	⁎	N	D
PSHEP5013FCZ2		36- 10	⁎	⁎	N	D
PSHEP5013FCZ3		36- 10	⁎	⁎	N	D
PSHEP5013FCZ4		36- 10	⁎	⁎	N	D
PSHEP5013FCZ5		36- 10	⁎	⁎	N	D
PSHEP5013FCZ6		36- 10	⁎	⁎	N	D
PSHEP5013FCZ7		36- 10	⁎	⁎	N	D
PSHEP5013FCZ8		36- 10	⁎	⁎	N	D
PSHEP5013FCZZ		36- 10	⁎	⁎	N	D
PSHEP5015FCZZ	572 403 5239	25- 37	AD	DJ	N	C
PSHEP5019FCZZ	572 403 5240	8- 8	AF	DS	N	C
PSHEP5022FCZZ	572 403 5241	14- 23	AC	DJ	N	C
PSHEP5037FCZZ	572 403 5242	14- 7	AC	DJ	N	C
PSHEP5061FCZ1	572 403 5272	22- 13	AD	DJ	N	C
PSHEP5062FCZZ	572 403 5273	22- 5	AB	DJ	N	C
PSHEP5071FCZZ	572 403 5243	14- 15	AB	DJ	N	C
PSHEP5075FCZZ	572 403 5244	6- 18	AF	DS	N	C
PSHEP5076FCZZ	572 403 5245	20- 56	AC	DJ	N	C
PSHEP5086FCZZ	572 403 5246	14- 33	AB	DJ	N	C
PSHEP5087FCZZ	572 403 5247	19- 36	AC	DJ	N	C
PSHEP5089FCZZ	572 403 5248	22- 15	AA	DJ	N	C
PSHEP5111FCZZ	572 403 5279	33- 20	AA	DJ	N	C
PSHEP5115FCZZ	572 403 5280	16- 36	AC	DJ	N	C
PSHEP5119FCZZ	578 403 0860	14- 35	AB	DJ	N	C
PSHEP5121FCZZ	572 403 5283	22- 35	AA	DJ	N	C
PSHEP5127FCZZ	572 403 5323	25- 43	AC	DJ	N	C
PSHEP5130FCZZ		19- 40	AA	DJ	N	C
PSHEZ3130FCZZ	572 403 2466	10- 7	AB	DD		C
PSHEZ4684FCZZ	572 403 4410	58- 5	AC	DJ		C
PSHEZ4788FCZ1	572 403 4682	15- 3	AD	DJ		C
PSHEZ4836FCZZ	572 403 5061	6- 35	AB	DJ		C
PSHEZ4843FCZ1	572 403 5215	6- 27	AC	DJ		C
PSHEZ4879FCZZ	572 403 5068	37- 33	AH	DX		C
PSHEZ4906FCZZ	572 403 5069	4- 25	AC	DJ		C
PSHEZ4933FCZZ	572 403 5099	37- 24	AD	DJ		C
PSHEZ4973FCZZ	572 403 5250	19- 1	AH	DX	N	B
PSHEZ4974FCZZ	572 403 5251	20- 57	AC	DJ	N	B
PSHEZ4997FCZ1	572 403 5253	22- 11	AC	DJ	N	A
PSHEZ4998FCZ1	572 403 5254	22- 12	AB	DJ	N	A
PSHEZ5007FCZZ	572 403 5255	17- 32	AF	DS	N	C
PSHEZ5027FCZZ	572 403 5256	22- 8	AB	DJ	N	B
PSHEZ5059FCZZ	572 403 5210	5- 1	AU	EZ		D
PSHEZ5065FCZZ	572 403 5257	4- 19	AQ	EQ	N	C
PSHEZ5074FCZZ	572 403 5259	27- 33	AC	DJ	N	C
PSHEZ5088FCZZ	572 403 5261	15- 37	AF	DS		C
PSHEZ5099FCZ1	572 403 5281	22- 30	AC	DJ	N	C
PSHEZ5126FCZZ	572 403 5324	20- 63	AF	DS	N	C
PSHT−0094FCZZ	572 407 0120	20- 46	AD	DJ	N	C
PSLDH0178FCZZ	572 408 0142	3- 6	AD	DJ		C
PSTK−0015FCZ2	572 441 0013	5- 6	AU	EZ	N	C

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			Ex.	Ja.		
PTME-0271FCZZ	572 420 0296	13- 23	AD	DJ		C
PTME-0276FCZ1	572 420 0320	24- 44	AK	EB		A
〃	572 420 0320	25- 12	AK	EB		A
PTME-0290FCZZ	572 420 0346	27- 17	AD	DJ	N	C
PTPE-0243FCZ1	572 423 0239	10- 12	AC	DJ		C
PWiR-0199FCZZ	572 427 1665	7- 1	AR	EQ	N	C
PWiR-0200FCZZ	572 427 1666	7- 7	AR	EQ	N	C
【Q】						
QACCB7623QCZZ	572 500 0067	36- 11	AQ	EQ	N	B
QACCB7626QCPZ		36- 11	*	*	N	B
QACCD7912QCPZ	572 500 0094	36- 11	AS	EQ	N	B
QACCE6922QCPZ	572 500 0097	36- 11	AQ	EQ	N	B
QACCJ6912QCPZ	572 500 0095	36- 11	AV	FG	N	B
QACCL7922QCPZ	572 500 0096	36- 11	AN	EQ	N	B
QCNCM0672FCZZ	595 510 0041	55- 1	AB	DD		C
QCNCM0879FCZZ	572 510 0823	51- 1	AF	DS		C
QCNCM0923FC10	572 510 0876	51- 2	AE	DJ		C
〃	572 510 0876	52- 1	AE	DJ		C
〃	572 510 0876	53- 96	AE	DJ		C
QCNCM0923FC12	572 510 0939	51- 3	AE	DJ		C
〃	572 510 0939	55- 2	AE	DJ		C
QCNCM0923FC14	572 510 0937	52- 2	AE	DJ		C
〃	572 510 0937	53- 3	AE	DJ		C
QCNCM0923FC16	572 510 0868	51- 4	AF	DS		C
〃	572 510 0868	52- 3	AF	DS		C
QCNCM0923FC22	572 510 0869	51- 5	AF	DS		C
〃	572 510 0869	53- 4	AF	DS		C
QCNCM0923FC24	572 510 0870	51- 6	AF	DS		C
〃	572 510 0870	52- 4	AF	DS		C
〃	572 510 0870	53- 5	AF	DS		C
QCNCM0923FC32	572 510 0871	51- 7	AG	DS		C
QCNCM0923FC3D	594 510 0463	51- 8	AF	DS		C
〃	594 510 0463	55- 3	AF	DS		C
QCNCM0931FCZZ	572 510 0872	55- 4	AF	DS		C
QCNCM0991FCZZ	572 510 0996	52- 5	AG	DX		C
〃	572 510 0996	56- 1	AG	DX		C
QCNCM0999FCZZ	572 510 1004	12- 18	AC	DJ		C
QCNCM1000FCZZ	572 510 1044	12- 19	AC	DJ		C
QCNCM1069AC0H	596 510 0032	55- 5	AE	DJ		C
QCNCM1069AC1J	569 510 0003	52- 6	AD	DJ		C
〃	569 510 0003	53- 6	AD	DJ		C
〃	569 510 0003	55- 6	AD	DJ		C
QCNCM1069ACZZ	541 510 5071	49- 1	AD	DD		C
QCNCM1156FCZZ	572 510 1226	50- 81	AD	DJ		C
QCNCM1171FCZZ	572 510 1229	54- 1	AE	DS		C
QCNCM1172FCZZ		56- 2	AL	EB	N	C
QCNCM1182FCZZ	572 510 1230	58- 6	AM	EG		C
QCNCM1183FCZZ	572 510 1231	58- 7	AM	EG		C
QCNCM1187FCZZ	572 510 1359	53- 7	AM	EG	N	C
QCNCM7014SC0B	595 510 0337	49- 2	AD	DJ		C
QCNCM7014SC0C	595 510 0338	49- 3	AA	DD		C
〃	595 510 0338	51- 9	AA	DD		C
〃	595 510 0338	53- 8	AA	DD		C
QCNCM7014SC0F	595 510 0346	51- 10	AB	DD		C
〃	595 510 0346	52- 7	AB	DD		C
〃	595 510 0346	55- 7	AB	DD		C
QCNCM7014SC0G	595 510 0347	53- 9	AB	DD		C
QCNCP0340QCZZ	572 510 0921	58- 8	AC	DJ		C
QCNCW0864FCZZ	572 510 0770	55- 8	AG	DX		C
QCNCW0885FCZZ	572 510 0834	51- 11	AG	DX		C
QCNCW0948FCZ6	572 510 1079	53- 10	AC	DJ		C
QCNCW1047FCZZ	572 510 1126	53- 11	AH	DX		C
QCNCW1155FCZZ	572 510 1220	49- 4	AE	DJ		C
〃	572 510 1220	50- 1	AE	DJ		C
QCNCW1157FCZZ	572 510 1358	52- 8	AB	DJ		C
QCNCW1164FCZZ		56- 3	AE	DJ	N	C
QCNCW1165FCZZ		56- 4	AG	DX	N	C
QCNCW1169FCZZ	572 510 1214	52- 9	AG	DS		C
QCNCW1170FCZZ	572 510 1215	51- 13	AG	DS		C
〃	572 510 1215	53- 12	AG	DS		C
QCNCW1186FCZZ	572 510 1352	53- 13	AF	DS		C
QCNCW1190FCZZ	572 510 1360	58- 10	AN	EG		C
QCNCW5380NCZZ	585 510 0432	52- 10	AC	DJ		C
QCNW-0190FCZZ	572 512 0429	31- 38	AD	DJ	N	C
QCNW-0197FCZZ	572 512 0430	35- 3	AL	EB	N	C
〃	572 512 0430	6- 36	AL	EB	N	C
QCNW-0199FCZZ	572 512 0431	8- 15	AE	DJ	N	C
QCNW-0210FCZZ	572 512 0423	37- 37	AE	DJ		C
QCNW-0211FCZZ	572 512 0432	35- 15	AF	DS	N	C
QCNW-0213FCZZ	572 512 0434	35- 4	AH	DX	N	C
〃	572 512 0434	6- 37	AH	DX	N	C

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QCNW-0214FCZZ	572 512 0435	4- 8	AD	DJ	N	C
QCNW-0215FCZZ	572 512 0436	34- 17	AZ	FQ	N	C
QCNW-7197XCZZ	578 512 0283	36- 27	AH	DX		C
QEARP0138FCZZ	572 514 0107	19- 25	AE	DJ	N	C
QEARP0139FCZZ	572 514 0108	19- 22	AD	DJ	N	C
QEARP0140FCZZ	572 514 0109	22- 19	AD	DJ	N	C
QFS-D1327QCZZ	572 515 0397	55- 9	AE	DS		A
QFS-E1111QCZZ		56- 5	AF	DS		A
QFSHB0028FCZZ	578 516 0011	55- 10	AC	DJ		C
〃	578 516 0011	56- 6	AC	DJ		C
QJAKT0001FCZZ	578 517 0010	50- 2	AD	DJ		C
QJAKT0002FCZZ	578 517 0009	50- 3	AE	DJ		C
QPiN-0003GCZZ	578 523 0004	49- 102	AC	DJ		C
〃	578 523 0004	53- 14	AC	DJ		C
〃	578 523 0004	58- 11	AC	DJ		C
QSŌCD0081FCZZ	572 527 0125	50- 82	AL	EB		C
QSŌCN0002ESZZ	578 527 0030	58- 9	AH	DX		C
QSŌCN0005ESZZ	578 527 0032	58- 12	AE	DS		C
QSŌCN0082FCZZ	572 527 0124	49- 5	AP	EQ		C
QSŌCZ0001QSZZ	578 527 0024	53- 15	AL	EB		C
〃	578 527 0024	58- 13	AL	EB		C
QSŌCZ0002QSZZ	578 527 0027	58- 14	AD	DJ		C
QSŌCZ0071FCZZ	572 527 0112	52- 11	AP	EQ		C
QSŌCZ0073FCNA	572 527 0126	58- 15	AL	EB		C
QSŌCZ0073FCZZ	572 527 0115	49- 6	AL	EB		C
〃	572 527 0115	51- 14	AL	EB		C
〃	572 527 0115	53- 16	AL	EB		C
QSŌCZ6428ACZZ	541 527 1013	51- 15	AE	DS		C
〃	541 527 1013	52- 12	AE	DS		C
〃	541 527 1013	53- 17	AE	DS		C
QSW-B0017QSZZ	572 530 0719	13- 6	AF	DS	N	B
〃	572 530 0719	20- 49	AF	DS	N	B
QSW-C1390QCZZ	572 530 0507	30- 1	AN	EQ		B
QSW-C9294QCZZ	572 530 0681	31- 48	AF	DS		B
QSW-C9295QCZZ	572 530 0682	37- 15	AL	EB		B
QSW-M0502FCZZ	572 530 0603	17- 6	AH	DX		B
〃	572 530 0603	30- 3	AH	DX		B
〃	572 530 0603	31- 1	AH	DX		B
QSW-P0005QSZZ	572 530 0672	54- 3	AC	DJ		B
QSW-P0469FCZZ	572 530 0536	54- 4	AD	DS		B
【R】						
RALMB1002LCZZ	594 601 0010	54- 5	AE	DS		B
RCiLF0068FCZZ	572 614 0193	56- 7	AF	DS		C
RCiLZ0089FCZZ	572 614 0239	50- 6	AG	DX		C
RCiLZ0353AFZZ	596 614 0565	58- 16	AH	DX		C
RC-KZ0008QCZZ	572 591 0090	49- 7	AB	DD		C
〃	572 591 0090	50- 4	AB	DD		C
RC-KZ0009QCZZ	572 591 0093	50- 83	AB	DD		C
RC-KZ1054CCN2	541 590 5042	55- 11	AB	DD		C
RCŌRF0046FCZZ	572 615 0085	36- 28	AH	DX	N	C
RCŌRF1057ACZZ	596 615 0149	58- 17	AB	DJ		C
RCRSP0068FCZZ	572 616 0152	49- 8	AG	DS		B
RCRSP0069FCZZ	572 616 0153	49- 9	AG	DS		B
〃	572 616 0153	53- 18	AG	DS		B
RCRSP0071FCZZ		51- 16	AH	DX	N	B
RCRSP0077FCZZ	572 616 0175	53- 19	AF	DS		B
RCRSP0079FCZZ	572 616 0176	53- 20	AF	DS		B
RCRSP0080FCZZ	572 616 0180	58- 18	AF	DS		B
RCRSP6676RCZZ	579 616 0064	53- 21	AG	DX		B
〃	579 616 0064	58- 20	AG	DX		B
RCRSQ0072FCZZ	572 616 0177	52- 13	AF	DS		B
RCRSQ0073FCZZ	572 616 0178	52- 14	AF	DS		B
〃	572 616 0178	53- 22	AF	DS		B
RCRSQ0074FCZZ	572 616 0179	52- 15	AF	DS		B
RCRSZ0001QSZZ	572 616 0100	51- 17	AG	DS		B
〃	572 616 0100	52- 16	AG	DS		B
RCRUA0010FCZZ	572 616 0154	49- 10	AQ	EQ		B
RDENC0004FCZZ	572 685 2080	37- 11	BV	RB		E
〃	572 685 2080	57- 901	BV	RB		E
RDENC0012FCZZ	572 685 2218	31- 39	BR	LX	N	E
RDENC0013FCZZ	572 685 2219	31- 37	BK	HG	N	E
RDENC0020FCZ1	572 685 2216	31- 31	BU	NE	N	E
RDENC0021FCZZ	572 685 2177	31- 31	BW	RJ	N	E
RDTCH0155FCZZ	572 618 0167	13- 19	AU	EZ	N	B
RDTCT0153FCZZ	572 618 0168	24- 30	AN	EQ	N	B
〃	572 618 0168	25- 19	AN	EQ	N	B
RFiLN0046FCZZ	572 621 0067	52- 17	AH	DX		C
RFiLN0047FCZZ	572 621 0063	49- 12	AC	DJ		C
〃	572 621 0063	50- 7	AC	DJ		C
RFiLN0048FCZZ	572 621 0064	58- 21	AC	DJ		C
RFiLN2011SCZZ	595 621 0004	50- 8	AC	DJ		C

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RFiLN5022NCZZ	585 621 0015	53- 23	AC	DJ		C
RFiLZ0004QSZZ	578 621 0030	51- 18	AM	EG		C
RFiLZ1042LCZZ	594 621 0050	49- 13	AC	DJ		C
〃	594 621 0050	52- 18	AC	DJ		C
RFiLZ1043LCZZ	594 621 0051	51- 19	AC	DJ		C
〃	594 621 0051	52- 19	AC	DJ		C
〃	594 621 0051	53- 24	AC	DJ		C
RHETP0084FCZZ	572 623 0099	30- 11	AS	EQ		C
RHETP0099FCZZ	572 623 0103	6- 31	AV	EQ	N	C
RH−iX0002FCZZ	572 573 2550	49- 35	AQ	EQ		B
RH−iX0003QSZZ	578 573 1149	51- 20	AQ	EQ		B
〃	578 573 1149	52- 20	AQ	EQ		B
RH−iX0004FCZZ	572 573 2545	49- 53	AS	EQ		B
RH−iX1013ACZZ	596 573 4270	58- 22	BK	HC		B
RH−iX3103YAZZ	595 573 5963	52- 21	AG	DS		B
〃	595 573 5963	53- 25	AG	DS		B
RLMPD0674FCZ1	572 626 0648	8- 1	BE	GN	N	B
RLMPU0668FCZZ	572 626 0644	24- 41	BA	FX	N	B
RLMPU0669FCZZ	572 626 0645	24- 41	BA	FX	N	B
RLMPU0670FCZZ	572 626 0646	25- 13	AZ	FQ	N	B
RLMPU0671FCZZ	572 626 0647	25- 13	AZ	FQ	N	B
RLMPU0672FCZZ	572 626 0649	24- 41	BA	FX	N	B
RLMPU0673FCZZ	572 626 0650	25- 13	AZ	FQ	N	B
RMEMM0001FCZZ	572 629 0001	53- 26	BZ	TF		B
RMŌTP0891FCZZ	572 630 1123	12- 7	BG	GT	N	B
RMŌTS0879FCNA	572 630 1131	23- 29	BD	GN	N	B
RMŌTS0879FCZZ	572 630 1124	23- 10	BD	GN	N	B
RMŌTS0881FCZZ	572 630 1125	20- 38	BC	GD	N	B
RMŌTS0882FCZZ	572 630 1126	21- 29	BA	FX	N	B
RMŌTS0883FCZZ	572 630 1127	31- 56	BA	FX	N	B
RMŌTS0884FCZZ	572 630 1128	26- 3	BA	FX	N	B
RMŌTS0885FCZ1	572 630 1129	7- 19	BE	GN	N	B
RMŌTS0890FCZZ	572 630 1130	28- 1	BA	FX	N	B
RMPTC4103QCJJ	594 631 0091	52- 22	AC	DD		B
RMPTC4330QCJJ	594 631 0082	52- 23	AC	DD		B
RMPTC4473QCJJ	593 631 0296	52- 24	AC	DD		B
RMPTR4100ACZZ	567 631 0099	58- 23	AB	DD		B
RMPTR4103ACZZ	567 631 0100	58- 24	AB	DD		B
RMPTR4330ACZZ	567 631 0109	58- 25	AB	DD		B
RMPTW4100QCJJ	572 631 0264	53- 27	AA	DD		B
RMPTW4101QCJJ	521 631 0027	51- 21	AB	DD		B
〃	521 631 0027	53- 28	AB	DD		B
RMPTW4102QCJJ	567 631 0055	51- 22	AB	DD		B
RMPTW4103QCJJ	571 631 0147	51- 23	AB	DD		B
〃	571 631 0147	53- 29	AB	DD		B
〃	571 631 0147	55- 12	AB	DD		B
RMPTW4330QCJJ	567 631 0058	51- 24	AB	DD		B
RMPTW4470QCJJ	521 631 0024	53- 30	AB	DD		B
RMPTW4472QCJJ	567 631 0059	51- 26	AB	DD		B
RMPTW4473QCJJ	567 631 0060	51- 27	AB	DD		B
〃	567 631 0060	55- 13	AB	DD		B
RPLU−0013QSZZ	572 647 0336	20- 35	AN	EG		B
RRLYD1211QCZZ	572 637 0164	50- 10	AH	DX		B
RRLYD1411QCZZ	572 637 0165	50- 11	AM	EG		B
RRLYD3211QCZZ	595 637 0065	50- 84	AM	EG		B
RR−WZ0418FCZZ	572 580 1088	50- 9	AF	DS		B
RTHM−0021FCZZ	572 644 0029	25- 18	AN	EG		B
RTHM−0022FCZZ	572 644 0030	24- 27	AN	EG		B
RTRNP0534FCZZ	572 654 0285	50- 85	AT	EZ		B
RTRNP2105SCZZ	595 654 0032	50- 86	AP	EQ		B
RTRNZ0511FCZZ	572 660 0367	56- 8	AQ	EQ		B
【S】						
SPAKA0581YSZZ	572 902 1718	36- 7	AE	DS	N	C
SPAKA4693FCZZ	572 902 0929	36- 18	AE	DS		D
SPAKA6075FCZZ	572 902 1602	36- 22	AE	DJ	N	D
SPAKA6235DSZZ	572 902 1719	36- 104	AH	DX	N	D
SPAKA6302FCZ1	572 902 1705	36- 17	AD	DJ	N	D
SPAKA6336FCZZ	572 902 1706	36- 2	AK	EB	N	D
SPAKA6337FCZZ	572 902 1707	36- 3	AN	EG	N	D
SPAKA6338FCZZ	572 902 1708	36- 2	AL	EB	N	D
SPAKA6339FCZZ	572 902 1709	36- 3	AN	EQ	N	D
SPAKA6345FCZZ	572 902 1713	36- 26	AE	DJ	N	D
SPAKA6346FCZZ	572 902 1714	36- 12	AD	DJ	N	D
SPAKA6384FCZZ	572 902 1721	36- 2	AL	EB	N	D
SPAKA6385FCZZ	572 902 1722	36- 3	AP	EQ	N	D
SPAKA6386FCZZ	572 902 1723	36- 103	AL	EB	N	D
SPAKA6440FCZZ	572 902 1724	36- 102	AL	EB	N	D
SPAKA6450FCZZ		36- 22	AD	DJ	N	D
SPAKC6334DS11		36- 1	BE	GN	N	D
SPAKC6334DS12	572 901 1931	36- 1	BU	NN	N	D
SPAKC6334DS14		36- 1	BE	GN	N	D

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			Ex.	Ja.		
SPAKC6334DS15	572 901 1932	36- 1	BU	NN	N	D
SPAKC6335DS11		36- 1	BE	GN	N	D
SPAKC6335DSZZ	572 901 1915	36- 1	BB	GD	N	D
SPAKC6383DS11		36- 1	BF	GN	N	D
SPAKC6383DSZZ	572 901 1922	36- 1	AZ	FQ	N	D
SSAKA0006UCZZ	541 906 1016	36- 30	AA	DD		C
SSAKA2440QCZZ	595 906 0005	36- 13	AB	DD		D
SSAKA3640QCZZ	595 906 0002	36- 8	AB	DD		C
SSAKA5003CCZZ	500 906 0006	36- 21	AA	DD		C
SSAKH3013CCZZ	500 906 0015	36- 29	AA	DD		C
SSAKZ0018FCZZ	572 906 0119	36- 4	AN	EG		D
【T】						
TCADS1511FCZZ	572 913 0956	36- 10	AC	DJ		D
TCADS1512FCZZ	572 913 0957	36- 10	AB	DJ		D
TCADZ1178FCZZ	572 913 0651	36- 15	AB	DJ		D
TCADZ1275FCZZ	572 913 0734	36- 24	AB	DJ		D
TCADZ1593FCZZ	572 913 0991	36- 105	AC	DJ	N	D
TCADZ1595FCZZ	572 913 0993	20- 62	AC	DJ	N	C
TCADZ6015FCZZ	572 913 0988	36- 101	AC	DJ	N	D
TCADZ6017FCZZ	572 913 0990	36- 10	AF	DS	N	D
TCADZ6017GHZZ		36- 10	*	*	N	D
TCAUA0770FCZZ	572 914 0035	1- 42	AB	DD		C
TCAUH1035FCZZ	572 914 0672	30- 7	AC	DJ		C
TiNSD2344GHZZ		36- 10	*	*	N	D
TiNSD2359GHZZ		36- 10	*	*	N	D
TiNSD2375GHZZ		36- 10	*	*	N	D
TiNSD2391GHZZ		36- 10	*	*	N	D
TiNSD2457GHZZ		36- 10	*	*	N	D
TiNSE2332FCZZ	572 916 2065	36- 10	BA	FX	N	D
TiNSE2333GHZZ		36- 10	*	*	N	D
TiNSE2334FCZZ	572 916 2055	36- 10	BB	GD	N	D
TiNSE2334GHZZ		36- 10	*	*	N	D
TiNSE2347FCZZ	572 916 2066	36- 10	AP	EQ	N	D
TiNSE2348GHZZ		36- 10	*	*	N	D
TiNSE2349FCZZ	572 916 2056	36- 10	AQ	EQ	N	D
TiNSE2349GHZZ		36- 10	*	*	N	D
TiNSE2363FCZZ	572 916 2057	36- 10	AM	EG	N	D
TiNSE2364GHZZ		36- 10	*	*	N	D
TiNSE2365FCZZ	572 916 2058	36- 10	AM	EG	N	D
TiNSE2365GHZZ		36- 10	*	*	N	D
TiNSE2379FCZZ	572 916 2059	36- 10	AN	EQ	N	D
TiNSE2380GHZZ		36- 10	*	*	N	D
TiNSE2381FCZZ	572 916 2060	36- 10	AN	EQ	N	D
TiNSE2381GHZZ		36- 10	*	*	N	D
TiNSE2445FCZZ	572 916 2074	36- 10	AM	EG	N	D
TiNSE2446GHZZ		36- 10	*	*	N	D
TiNSE2447FCZZ	572 916 2075	36- 10	AM	EG	N	D
TiNSE2447GHZZ		36- 10	*	*	N	D
TiNSF2336FCZZ	572 916 2067	36- 10	BA	FX	N	D
TiNSF2336GHZZ		36- 10	*	*	N	D
TiNSF2351FCZZ	572 916 2068	36- 10	AP	EQ	N	D
TiNSF2351GHZZ		36- 10	*	*	N	D
TiNSF2367FCZZ	572 916 2061	36- 10	AM	EG	N	D
TiNSF2367GHZZ		36- 10	*	*	N	D
TiNSF2383FCZZ	572 916 2062	36- 10	AN	EQ	N	D
TiNSF2383GHZZ		36- 10	*	*	N	D
TiNSF2449FCZZ	572 916 2076	36- 10	AM	EG	N	D
TiNSF2449GHZZ		36- 10	*	*	N	D
TiNSG2341GHZZ		36- 10	*	*	N	D
TiNSG2356GHZZ		36- 10	*	*	N	D
TiNSG2372GHZZ		36- 10	*	*	N	D
TiNSG2388GHZZ		36- 10	*	*	N	D
TiNSG2454GHZZ		36- 10	*	*	N	D
TiNSH2339GHZZ		36- 10	*	*	N	D
TiNSH2354GHZZ		36- 10	*	*	N	D
TiNSH2370GHZZ		36- 10	*	*	N	D
TiNSH2386GHZZ		36- 10	*	*	N	D
TiNSH2452GHZZ		36- 10	*	*	N	D
TiNSi2338GHZZ		36- 10	*	*	N	D
TiNSi2353GHZZ		36- 10	*	*	N	D
TiNSi2369GHZZ		36- 10	*	*	N	D
TiNSi2385GHZZ		36- 10	*	*	N	D
TiNSi2451GHZZ		36- 10	*	*	N	D
TiNSJ2329FCZZ	572 916 2045	36- 10	BB	GD	N	D
TiNSJ2330FCZZ	572 916 2046	36- 10	BA	FX		D
TiNSJ2331FCZZ	572 916 2047	36- 10	AV	FG	N	D
TiNSJ2362FCZZ	572 916 2063	36- 10	AK	EB	N	D
TiNSJ2378FCZZ	572 916 2064	36- 10	AS	EQ	N	D
TiNSJ2444FCZZ	572 916 2078	36- 10	AM	EG	N	D
TiNSS2337GHZZ		36- 10	*	*	N	D
TiNSS2352GHZZ		36- 10	*	*	N	D

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			Ex.	Ja.		
TiNSS2368GHZZ		36- 10	⁎	⁎	N	D
TiNSS2384GHZZ		36- 10	⁎	⁎	N	D
TiNSS2450GHZZ		36- 10	⁎	⁎	N	D
TiNSW2340GHZZ		36- 10	⁎	⁎	N	D
TiNSW2355GHZZ		36- 10	⁎	⁎	N	D
TiNSW2371GHZZ		36- 10	⁎	⁎	N	D
TiNSW2387GHZZ		36- 10	⁎	⁎	N	D
TiNSW2453GHZZ		36- 10	⁎	⁎	N	D
TiNSZ2342GHZZ		36- 10	⁎	⁎	N	D
TiNSZ2343GHZZ		36- 10	⁎	⁎	N	D
TiNSZ2357GHZZ		36- 10	⁎	⁎	N	D
TiNSZ2358GHZZ		36- 10	⁎	⁎	N	D
TiNSZ2373GHZZ		36- 10	⁎	⁎	N	D
TiNSZ2374GHZZ		36- 10	⁎	⁎	N	D
TiNSZ2389GHZZ		36- 10	⁎	⁎	N	D
TiNSZ2390GHZZ		36- 10	⁎	⁎	N	D
TiNSZ2455GHZZ		36- 10	⁎	⁎	N	D
TiNSZ2456GHZZ		36- 10	⁎	⁎	N	D
TLABF2705FCZZ	577 917 0006	1- 43	AB	DD		C
TLABH4186FCZZ	572 917 3188	1- 45	AE	DS		C
TLABH4746FCZZ	572 917 3691	24- 2	AH	DX	N	C
TLABH4747FCZ1	572 917 3692	20- 41	AH	DX	N	C
TLABH4747FCZZ	572 917 3749	20- 41	AE	DJ	N	C
TLABH4748FCZZ	572 917 3693	2- 26	AF	DS	N	C
TLABH4749FCZZ	572 917 3705	2- 26	AE	DJ	N	C
TLABS4306FCZZ	572 917 3307	1- 47	AC	DJ		C
TLABZ0059QSZZ	572 917 3355	1- 50	AE	DJ		C
TLABZ4047FCZZ	572 917 3041	10- 4	AC	DJ		C
〃	572 917 3041	1- 41	AC	DJ		C
TLABZ4238FCZZ	572 917 3233	10- 32	AD	DJ		C
TLABZ4239FCZZ	572 917 3308	10- 32	AD	DJ		C
TLABZ4240FCZZ	572 917 3309	10- 32	AD	DJ		C
TLABZ4335FCZZ	572 917 3385	7- 39	AB	DJ		C
TLABZ4694FCZZ	572 917 3593	1- 48	AF	DS		C
TLABZ4720FCZZ	572 917 3607	1- 49	AC	DJ		C
TLABZ4742FCZZ	572 917 3702	1- 33	AL	EB	N	C
TLABZ4753FCZZ	572 917 3695	22- 23	AA	DJ	N	C
TLABZ4754FCZZ	572 917 3696	22- 23	AA	DJ	N	C
TLABZ4755FCZZ	572 917 3697	22- 23	AA	DJ	N	C
TLABZ4756FCZZ	572 917 3698	22- 23	AB	DJ	N	C
TLABZ4759FCZZ	572 917 3699	13- 30	AH	DX	N	C
TLABZ4766FCZZ	572 917 3700	22- 3	AC	DJ	N	C
TLABZ4772FCZ1	572 917 3715	20- 50	AF	DJ	N	B
【U】						
UBATi0014FCZZ	572 932 0022	53- 31	AN	EQ		B
UBATL2033SCZZ	595 932 0026	58- 26	AK	EB		B
UCLEZ0169FCZZ	572 704 0125	20- 12	AQ	EQ	N	A
UCLEZ0170FCZZ	572 704 0126	20- 6	AK	EB	N	A
UCLEZ0171FCZ2	572 704 0127	22- 14	AX	FG	N	A
UCLEZ0172FCZ1	572 704 0128	22- 18	AQ	EQ	N	A
UKOG−0304FCZZ	572 941 0300	36- 10	AQ	EQ	N	D
【V】						
VCAAPF0JJ107M	572 590 0055	58- 27	AF	DS		C
VCCCCZ1EH221J	595 593 1444	49- 14	AB	DD		C
〃	595 593 1444	50- 14	AB	DD		C
VCCCCZ1HH100D	521 593 0027	49- 15	AA	DD		C
VCCCCZ1HH101J	521 593 0028	50- 15	AA	DD		C
〃	521 593 0028	58- 28	AA	DD		C
VCCCCZ1HH150J	521 593 0029	49- 16	AA	DD		C
〃	521 593 0029	52- 25	AA	DD		C
VCCCCZ1HH151J	596 593 1667	53- 32	AC	DD		C
VCCCCZ1HH180J	578 593 0186	51- 29	AA	DD		C
VCCCCZ1HH220J	521 593 0023	51- 30	AA	DD		C
〃	521 593 0023	52- 26	AA	DD		C
〃	521 593 0023	53- 33	AA	DD		C
〃	521 593 0023	58- 29	AA	DD		C
VCCCCZ1HH270J	567 593 0396	53- 34	AA	DD		C
VCCUCY1AJ105Z	596 593 0899	51- 31	AC	DD		C
VCE9EA1CW106M	572 594 0924	50- 21	AC	DD		C
VCE9GA1CW476M	572 594 0925	50- 22	AD	DD		C
VCEAEA0JW107M	541 591 5218	52- 27	AA	DD		C
VCEAGA0JW107M	541 591 5321	51- 32	AC	DD		C
VCEAGA1AW107M	585 594 0057	53- 35	AB	DD		C
VCEAGA1AW108M	597 594 0001	51- 33	AC	ZT		C
VCEAGA1AW476M	572 594 0061	52- 28	AA	DD		C
〃	572 594 0061	53- 36	AA	DD		C
〃	572 594 0061	55- 14	AA	DD		C
VCEAGA1AW477M	541 591 5323	51- 34	AB	DD		C
〃	541 591 5323	52- 29	AB	DD		C
VCEAGA1CW106M	541 591 5281	52- 30	AA	DD		C
〃	541 591 5281	55- 15	AA	DD		C
VCEAGA1CW107M	541 591 5089	52- 31	AC	DD		C
VCEAGA1HW224M	501 591 5002	52- 32	AA	DD		C
VCEAGA1VW107M	541 591 5325	52- 33	AB	DD		C
VCEAGA1VW227M	572 594 0086	52- 34	AB	DD		C
VCEAGU1VW108M	585 594 0059	55- 16	AE	DX		C
VCEAJU1CW476M	596 594 0062	54- 6	AB	DD		C
VCEAPH1VC225M	567 594 0130	58- 30	AC	DD		C
VCEAPS1AC227M	572 594 0923	58- 31	AD	DJ		C
VCEAPS1CC106M	588 594 0085	49- 17	AC	DD		C
〃	588 594 0085	58- 32	AC	DD		C
VCEAPS1CC226M	593 594 0584	58- 33	AC	DJ		C
VCEAPS1CC476M	567 594 0128	58- 34	AC	DJ		C
VCEAPS1HC475M	567 594 0132	49- 18	AC	DJ		C
VCEAPZ1EW107M	588 594 0089	49- 19	AD	DJ		C
〃	588 594 0089	58- 35	AD	DJ		C
VCEAPZ1EW476M	594 594 0040	49- 20	AE	DJ		C
VCEAZA1AW477M	572 594 0828	53- 37	AC	DD		C
VCEAZA1EW476M	578 594 0148	50- 16	AC	DD		C
VCEAZA1HW105M	594 594 0295	50- 17	AB	DD		C
VCEAZA1HW225M	594 594 0291	50- 87	AB	DD		C
VCEAZA1HW226M	578 594 0178	50- 18	AC	DD		C
VCEAZA1HW334M	594 594 0294	50- 19	AB	DD		C
VCEAZA1HW475M	572 594 0761	50- 20	AB	DD		C
VCEAZA1VW476M	578 594 0149	55- 17	AC	DD		C
VCEAZU0JW338M	572 594 0926	51- 36	AE	DJ		C
VCEAZU1VW106M	578 594 0140	51- 35	AB	DD		C
VCEAZU1VW477M	572 594 0655	51- 37	AD	DJ		C
VCFYDA1HA104J	572 596 0404	49- 21	AC	DD		C
VCFYDA1HA105J	572 596 0405	49- 22	AE	DJ		C
〃	572 596 0405	50- 88	AE	DJ		C
VCFYDA1HA333J	572 596 0406	49- 23	AC	DD		C
VCFYDA1HA474J	595 596 0218	49- 24	AD	DJ		C
VCFYJU2AA824K	572 596 0377	50- 89	AF	DS		C
VCFYJU2EA105K	595 596 0062	50- 23	AE	DS		C
VCFYJU2GA473K	595 596 0091	50- 90	AC	DD		C
VCFYJU2JA103K	595 596 0093	56- 9	AC	DD		C
VCKYCY1EB104K	596 593 1153	53- 38	AG	DX		C
VCKYCY1HB223K	595 593 1641	51- 38	AC	DD		C
VCKYCY1HF223Z	594 593 0072	52- 35	AA	DD		C
VCKYCZ1AB333K	595 593 1674	50- 91	AB	DD		C
VCKYCZ1AF224Z	572 593 0355	49- 25	AC	DD		C
VCKYCZ1CB103K	595 593 1450	49- 103	AA	DD		C
VCKYCZ1CF104Z	521 593 0017	49- 26	AB	DD		C
〃	521 593 0017	51- 39	AB	DD		C
〃	521 593 0017	52- 36	AB	DD		C
〃	521 593 0017	53- 39	AB	DD		C
〃	521 593 0017	58- 37	AB	DD		C
VCKYCZ1EB103K	567 593 0417	53- 40	AB	DD		C
VCKYCZ1EB472K	521 593 0054	49- 27	AA	DD		C
〃	521 593 0054	52- 37	AA	DD		C
VCKYCZ1EF223Z	567 593 0398	56- 10	AA	DD		C
VCKYCZ1HB102K	521 593 0030	49- 28	AA	DD		C
〃	521 593 0030	50- 25	AA	DD		C
〃	521 593 0030	51- 40	AA	DD		C
〃	521 593 0030	52- 38	AA	DD		C
〃	521 593 0030	53- 41	AA	DD		C
〃	521 593 0030	55- 18	AA	DD		C
〃	521 593 0030	58- 38	AA	DD		C
VCKYCZ1HB222K	521 593 0032	50- 92	AA	DD		C
〃	521 593 0032	55- 19	AA	DD		C
VCKYCZ1HB471K	521 593 0033	49- 29	AA	DD		C
〃	521 593 0033	50- 26	AA	DD		C
〃	521 593 0033	53- 42	AA	DD		C
〃	521 593 0033	55- 20	AA	DD		C
〃	521 593 0033	56- 11	AA	DD		C
VCKYCZ1HF103Z	567 593 0374	52- 39	AA	DD		C
〃	567 593 0374	58- 39	AA	DD		C
VCKYPU1EB223Z	572 593 0312	54- 7	AB	DD		C
VCKYPU3SD150K	572 593 0418	56- 12	AC	DD		C
VCKYTQ0JF106Z	596 593 1290	52- 40	AD	DJ		C
VCQYNU1HM223K	595 596 0107	50- 93	AA	DD		C
VHD0R5G4B42−1	595 570 0003	50- 27	AF	DS		B
VHD10DDA40+−1	572 570 0569	50- 29	AD	DJ		B
VHD1SS133／／−1	541 570 5063	49- 32	AA	DD		B
〃	541 570 5063	50- 28	AA	DD		B
VHD1SS355／／−1	595 570 0304	53- 43	AB	DJ		B
VHDDAN202U／−1	500 570 5015	51- 41	AB	DD		B
〃	500 570 5015	52- 41	AB	DD		B
〃	500 570 5015	53- 44	AB	DD		B
VHDDAP202U／−1	500 570 5023	51- 42	AB	DD		B
〃	500 570 5023	52- 42	AB	DD		B

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			Ex.	Ja.		
VHDDAP202U/-1	500 570 5023	53- 45	AB	DD		B
VHDDSM1D1//-1	572 570 0366	55- 21	AB	DJ		B
VHDDSS133//-1	500 570 5006	51- 43	AA	DD		B
〃	500 570 5006	52- 43	AA	DD		B
〃	500 570 5006	54- 8	AA	DD		B
〃	500 570 5006	55- 22	AA	DD		B
VHDM1FS4///-1	521 570 0024	52- 44	AD	DJ		B
VHDMA704A//-1	572 570 0328	51- 44	AC	DJ		B
〃	572 570 0328	52- 45	AC	DJ		B
VHDRA13++++-1	572 570 0560	51- 45	AD	DJ		B
〃	572 570 0560	52- 46	AD	DJ		B
〃	572 570 0560	55- 23	AD	DJ		B
VHDRB051L40-1	594 570 0251	58- 40	AE	DS		B
VHDRB451F//-1	594 570 0199	53- 46	AD	DS		B
〃	594 570 0199	58- 41	AD	DS		B
VHDRB751V40-1	521 570 0013	49- 31	AD	DJ		B
VHEHZS2C1//-1	595 571 0250	50- 30	AB	DJ		B
VHEHZS3B1//-1	595 571 0002	52- 47	AC	DJ		B
VHEMTZJ33B+-1	572 571 0264	50- 31	AC	DJ		B
VHEMTZJ4R7B-1	595 571 0272	50- 32	AC	DJ		B
VHEMTZJ8.2B-1	595 571 0265	50- 33	AB	DJ		B
VHERD22FB//-1	500 570 0074	51- 46	AD	DJ		B
VHERD5.1EB2-1	595 571 0006	49- 33	AA	DD		B
VHH103AT-2/-1	595 572 0003	51- 47	AG	DS		B
〃	595 572 0003	56- 13	AG	DS		B
VHHMSMDC014-1	596 572 0031	51- 48	AF	DS		B
VHi107AP66C-1	572 573 2908	58- 42	BX	TF		B
VHi1085CZAD-1	572 573 2909	58- 43	AH	DX		B
VHi161622FH1C	572 573 2848	52- 48	BA	FX		B
VHi2309SC1H-1	572 573 2569	58- 44	AT	EZ		B
VHi23S09SC+-1	572 573 2849	53- 47	AV	FG		B
VHi28F081L07F	572 573 2902	31- 26	AY	FQ	N	E
VHi28F081L11F	572 573 2973	38- 24	AY	FQ	N	E
VHi28F082L06S	572 573 2912	37- 38	BF	GN	N	E
VHi28F161L01F	572 573 2903	6- 8	BA	FX	N	C
VHi28F162L01F	572 573 2904	6- 10	BD	GN	N	C
VHi28F322L22F	572 573 2905	34- 22	BH	HC	N	C
VHi28F322L23F	572 573 2906	34- 22	BH	HC	N	C
VHi28F322L32F	572 573 2974	38- 23	BG	GT	N	E
VHi28F322L33F		38- 22	BM	HR	N	E
VHi29F04-01FC	572 573 2494	49- 39	AX	FG		B
VHi58C256AP-1	572 573 2235	53- 48	BB	GD		B
VHi60852ATB-1	572 573 2910	58- 45	AX	FG		B
VHi61LV6416-1	578 573 1169	52- 49	AX	FG		B
VHi65946P110C	572 573 2874	51- 49	BB	GD		B
VHi65949P03-1	572 573 2875	53- 50	BE	GN		B
VHi74HC132M-1	572 573 2497	49- 57	AF	DS		B
VHi74HC74AM-1	572 573 2484	49- 58	AE	DJ		B
VHi74LCX04M-1	578 573 1174	49- 59	AE	DJ		B
VHi74LCX08MTC	572 573 2090	52- 50	AE	DJ		B
〃	572 573 2090	58- 46	AE	DJ		B
VHi74LCX14MTC	572 573 2091	52- 51	AE	DJ		B
〃	572 573 2091	53- 51	AE	DJ		B
〃	572 573 2091	58- 47	AE	DJ		B
VHi74LCX244MT	572 573 2092	52- 52	AM	DX		B
〃	572 573 2092	53- 52	AM	DX		B
〃	572 573 2092	58- 48	AM	DX		B
VHi74LCX245MT	572 573 2093	52- 53	AM	DX		B
〃	572 573 2093	53- 53	AM	DX		B
〃	572 573 2093	58- 49	AM	DX		B
VHi74LVX08M-1	578 573 1155	49- 60	AE	DJ		B
VHi74LVX14M-1	572 573 2485	49- 61	AE	DJ		B
VHi74LVX16128	578 573 1048	58- 50	AP	EQ		B
VHi74VHC08/-1	572 573 1476	52- 54	AE	DS		B
VHi74VHC32MTC	572 573 2097	51- 50	AD	DJ		B
VHi755B300E-1	572 573 2911	58- 51	BZ	TF		B
VHi7SZ125M5-1	572 573 2486	58- 52	AE	DS		B
VHi85672011-1	572 573 2852	53- 54	BV	RB		B
VHi90C363A+-1	572 573 2854	52- 56	AU	FG		B
VHi90CF364A-1	572 573 2853	53- 55	AU	FG		B
VHiBU4066BCF1	595 573 3115	50- 34	AD	DJ		B
VHiCY25811S-1	572 573 2869	53- 56	AN	EG		B
VHiCY25814S-1	572 573 2870	53- 58	AN	EG		B
VHiD3032+++-1	572 573 2925	58- 55	AX	FG	N	B
VHiD8501A++-1	572 573 2924	58- 56	BS	MW	N	B
VHiEES02L400P	572 573 2498	49- 34	AG	DX		B
VHiEES04L400P	572 573 2414	58- 57	AG	DX		B
VHiH8D3063+-1	578 573 1163	50- 95	AW	FG		B
VHiH8S2320+-1	578 573 1145	51- 52	AY	FQ		B
〃	578 573 1145	52- 58	AY	FQ		B
VHiHC151MTC-1	572 573 2837	51- 53	AE	DJ		B
VHiHG73C095-1	572 573 2459	52- 59	AY	FQ		B
VHiHi207ECB-1	578 573 1292	53- 59	AN	EQ		B
VHiHN58V65A-1	572 573 2288	51- 54	AW	FG		B
〃	572 573 2288	52- 60	AW	FG		B
VHiLCX244SJ-1	572 573 2481	49- 36	AG	DX		B
VHiLCX574MT-1	572 573 2871	53- 60	AF	DS		B
VHiLCX74MTC-1	572 573 2444	53- 61	AE	DJ		B
VHiLHF80J01-1	595 573 6174	53- 62	AX	FG		B
VHiLM111718-1	578 573 1166	49- 37	AH	DX		B
VHiLM324D++-1	572 573 2445	51- 55	AE	DJ		B
VHiLM339D++-1	572 573 2446	51- 56	AE	DJ		B
VHiLM358DR+-1	578 573 1112	52- 61	AF	DS		B
VHiLM393D++-1	572 573 2447	53- 63	AE	DJ		B
VHiLM98513+-1	572 573 2872	52- 62	AY	FQ		B
VHiM3032ATC-1	572 573 2907	53- 64	AT	EZ	N	B
VHiM51957BFP1	567 573 0126	51- 57	AH	DX		B
〃	567 573 0126	52- 63	AH	DX		B
〃	567 573 0126	53- 65	AH	DX		B
VHiM87J8310-1	572 573 2841	52- 64	BQ	LP		B
VHiM87L4240-1	572 573 2842	52- 65	BG	GT		B
VHiM87M1290-1	572 573 2843	52- 66	BZ	TF		B
VHiMAX3225E-1	572 573 2482	49- 38	AT	EZ		B
〃	572 573 2482	53- 66	AT	EZ		B
VHiMBLV064N-1	572 573 2873	52- 67	BA	FX		B
VHiMN195004-1	572 573 2468	49- 40	BN	HZ		B
VHiMTD2007F-1	567 573 1405	52- 68	AU	EZ		B
VHiNJM2113M-1	595 573 3547	49- 42	AG	DS		B
VHiNJM2903M/-	572 573 0025	58- 60	AD	DJ		B
VHiNJM4558MF1	572 573 1736	49- 43	AE	DJ		B
〃	572 573 1736	50- 35	AE	DJ		B
VHiNJU4051M-1	595 573 3786	49- 44	AG	DX		B
VHiNJU4052BMF	578 573 0533	49- 45	AG	DS		B
VHiNJU4053BMF	578 573 0363	49- 46	AG	DS		B
VHiNJU6356E-1	572 573 1737	53- 67	AK	DX		B
〃	572 573 1737	58- 61	AK	DX		B
VHiPM2500++-1	572 573 2409	53- 68	BP	LP		B
VHiPST591CMT1	595 573 2858	49- 47	AE	DS		B
VHiPST591iM-1	585 573 1696	49- 48	AG	DS		B
VHiPST598DN-1	572 573 2472	58- 62	AF	DS		B
VHiPST598iN-1	523 573 0081	58- 63	AF	DS		B
VHiPST994C+-1	572 573 2496	49- 49	AG	DS		B
VHiR1117D25-1	572 573 2900	58- 64	AG	DS		B
VHiSD4M16L1-1	572 573 2410	49- 50	AZ	FX		B
VHiSD8M16L1-1	572 573 2460	52- 70	BB	GD		B
〃	572 573 2460	53- 69	BB	GD		B
VHiSH770910-1	578 573 1168	49- 51	BH	GX		B
〃	578 573 1168	53- 70	BH	GX		B
VHiSLA7024MT/	572 573 1217	55- 24	AS	EQ		B
VHiSLA7031M-1	572 573 2844	51- 59	AQ	EQ		B
〃	572 573 2844	55- 25	AQ	EQ		B
VHiSLA7032M-1	572 573 2897	51- 60	AR	EQ		B
VHiSR1024-7LL	572 573 2461	53- 71	AU	EZ		B
VHiSR1024L15J	572 573 2483	49- 52	AU	FG		B
VHiTA31076F-1	572 573 1739	50- 36	AH	DX		B
VHiTA7291AS-1	572 573 2570	51- 61	AG	DX		B
VHiTD62003AF/	572 573 2085	51- 62	AE	DS		B
〃	572 573 2085	52- 71	AE	DS		B
VHiTD62503F/-	572 573 0907	49- 54	AG	DX		B
〃	572 573 0907	52- 72	AG	DX		B
VHiTHS56F//-1	595 573 3362	50- 97	AS	EZ		B
VHiTR88017S-1	572 573 2469	49- 55	BA	FX		B
VHiUPD65946-1	572 573 2470	49- 56	BB	GD		B
VHiUPD85632-1	572 573 2845	52- 73	BM	HV		B
VHiUPD85658-1	572 573 2846	52- 74	BV	RB		B
VHiVC4051MT-1	572 573 2856	51- 63	AF	DS		B
VHiVHC14MTC-1	572 573 2847	51- 64	AD	DJ		B
VHiVHCT14AM-1	578 573 1092	51- 65	AE	DJ		B
VHiVHCT244T-1	595 573 5596	55- 26	AK	DX		B
VHiVT574MTC-1	572 573 2857	51- 67	AF	DS		B
VHP1LHEE-002A	578 574 0042	49- 62	AC	DJ		B
VHP1LHLE-002A	578 574 0043	54- 9	AC	DJ		B
VHPGP1A22LC-1	572 574 0100	6- 15	AK	EB		B
VHPGP1A71L3-1	572 568 0153	11- 22	AG	DS	N	B
〃	572 568 0153	13- 5	AG	DS	N	B
〃	572 568 0153	15- 28	AG	DS	N	B
〃	572 568 0153	17- 3	AG	DS	N	B
〃	572 568 0153	21- 25	AG	DS	N	B
〃	572 568 0153	23- 15	AG	DS	N	B
〃	572 568 0153	25- 9	AG	DS	N	B
〃	572 568 0153	28- 4	AG	DS	N	B
〃	572 568 0153	28- 40	AG	DS	N	B

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VHPGP1A71L3−1	572 568 0153	31- 32	AG	DS	N	B
VHPGP2TC21／／1	572 568 0107	20- 1	BE	GN		B
VHPGP3A38／／−1	572 574 0040	6- 11	AH	DX		B
VHPLT1F67AF−1	595 574 0220	52- 75	AC	DJ		B
〃	595 574 0220	53- 72	AC	DJ		B
VHPLT9400E／−1	572 574 0310	54- 10	AK	EB		B
VHPPC814X1＋−1	572 568 0154	50- 37	AD	DJ		B
VHPPC817D／／−1	596 574 0016	50- 38	AD	DJ		B
VHPTLP624−1BV	572 574 0308	50- 39	AG	DX		B
VHVDSS−401M／／	578 577 0027	50- 40	AH	DX		B
VHVTN07G101−1	595 577 0103	50- 42	AB	DJ		B
VHVTNR5V471K／	578 577 0026	50- 41	AD	DJ		B
VRD−HT2EY100J	595 581 0453	50- 43	AA	DD		C
VRD−HT2EY102J	507 581 5010	54- 11	AA	DD		C
VRD−HT2EY104J	505 581 5003	50- 44	AA	DD		C
〃	505 581 5003	55- 28	AA	DD		C
VRD−HT2EY111J	588 581 0061	54- 12	AA	DD		C
VRD−HT2EY124J	595 581 0454	50- 45	AA	DD		C
VRD−HT2EY151J	541 581 5470	54- 13	AA	DD		C
VRD−HT2EY164J	588 581 0069	50- 46	AA	DD		C
VRD−HT2EY183J	571 581 0415	50- 47	AA	DD		C
VRD−HT2EY204J	507 581 5013	50- 48	AA	DD		C
VRD−HT2EY224J	579 581 0158	50- 49	AA	DD		C
VRD−HT2EY242J	571 581 0369	55- 27	AA	DD		C
VRD−HT2EY300J	588 581 0088	50- 50	AA	DD		C
VRD−HT2EY302J	581 581 0003	54- 14	AA	DD		C
VRD−HT2EY303J	579 581 0123	50- 52	AA	DD		C
VRD−HT2EY471J	507 581 5017	50- 53	AA	DD		C
VRD−HT2EY472J	507 581 5018	50- 98	AA	DD		C
VRD−HT2EY473J	507 581 5019	54- 15	AA	DD		C
〃	507 581 5019	55- 38	AA	DD		C
VRD−HT2EY562J	595 581 0480	55- 29	AA	DD		C
VRD−HT2EY682J	571 581 0452	50- 55	AA	DD		C
〃	571 581 0452	54- 16	AA	DD		C
VRD−HT2EY751J	507 581 5045	49- 63	AA	DD		C
VRD−HT2EY910J	577 581 0025	50- 56	AA	DD		C
VRD−HT2EY911J	588 581 0035	54- 17	AA	DD		C
VRD−HT2HY471J	579 581 0125	49- 64	AA	DD		C
VRD−RC2EY103J	500 581 5014	56- 15	AA	DD		C
VRS−CY1JD270J	521 581 0007	51- 69	AA	DD		C
VRS−CZ1JD000J	521 581 0082	49- 65	AA	DD		C
〃	521 581 0082	50- 57	AA	DD		C
〃	521 581 0082	51- 70	AA	DD		C
〃	521 581 0082	52- 76	AA	DD		C
〃	521 581 0082	53- 73	AA	DD		C
〃	521 581 0082	58- 67	AA	DD		C
VRS−CZ1JD100J	567 581 0524	53- 74	AA	DD		C
〃	567 581 0524	58- 68	AA	DD		C
VRS−CZ1JD101J	521 581 0137	49- 67	AA	DD		C
〃	521 581 0137	51- 71	AA	DD		C
〃	521 581 0137	52- 77	AA	DD		C
〃	521 581 0137	53- 75	AA	DD		C
〃	521 581 0137	56- 16	AA	DD		C
VRS−CZ1JD102J	521 581 0093	49- 68	AA	DD		C
〃	521 581 0093	50- 58	AA	DD		C
〃	521 581 0093	51- 72	AA	DD		C
〃	521 581 0093	52- 78	AA	DD		C
〃	521 581 0093	53- 76	AA	DD		C
〃	521 581 0093	55- 30	AA	DD		C
〃	521 581 0093	58- 69	AA	DD		C
VRS−CZ1JD103F	521 581 0127	49- 69	AA	DD		C
〃	521 581 0127	51- 73	AA	DD		C
〃	521 581 0127	52- 79	AA	DD		C
VRS−CZ1JD103J	521 581 0085	49- 70	AA	DD		C
〃	521 581 0085	50- 59	AA	DD		C
〃	521 581 0085	51- 74	AA	DD		C
〃	521 581 0085	52- 80	AA	DD		C
〃	521 581 0085	53- 77	AA	DD		C
〃	521 581 0085	58- 70	AA	DD		C
VRS−CZ1JD104F	521 581 0253	51- 75	AA	DD		C
VRS−CZ1JD104J	521 581 0083	49- 71	AA	DD		C
〃	521 581 0083	51- 76	AA	DD		C
VRS−CZ1JD105J	521 581 0094	51- 77	AA	DD		C
〃	521 581 0094	52- 81	AA	DD		C
〃	521 581 0094	53- 78	AA	DD		C
〃	521 581 0094	58- 71	AA	DD		C
VRS−CZ1JD113F	567 581 0525	51- 78	AA	DD		C
VRS−CZ1JD113J	521 581 0095	50- 60	AA	DD		C
VRS−CZ1JD121J	567 581 0526	53- 79	AA	DD		C
VRS−CZ1JD122J	521 581 0096	52- 83	AA	DD		C
VRS−CZ1JD123J	521 581 0097	49- 72	AA	DD		C

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VRS−CZ1JD123J	521 581 0097	52- 84	AA	DD		C
VRS−CZ1JD133F	572 581 2079	49- 73	AA	DD		C
VRS−CZ1JD133J	572 581 2155	52- 85	AA	DD		C
VRS−CZ1JD151J	567 581 0527	50- 99	AA	DD		C
〃	567 581 0527	53- 80	AA	DD		C
VRS−CZ1JD152J	521 581 0175	49- 74	AA	DD		C
〃	521 581 0175	52- 86	AA	DD		C
〃	521 581 0175	53- 81	AA	DD		C
〃	521 581 0175	58- 73	AA	DD		C
VRS−CZ1JD153F	521 581 0290	49- 75	AB	DD		C
VRS−CZ1JD153J	567 581 0528	50- 61	AA	DD		C
VRS−CZ1JD162J	578 581 0333	51- 79	AA	DD		C
VRS−CZ1JD182J	521 581 0189	53- 82	AA	DD		C
VRS−CZ1JD183J	521 581 0102	49- 76	AA	DD		C
〃	521 581 0102	50- 62	AA	DD		C
VRS−CZ1JD201J	521 581 0254	51- 80	AA	DD		C
〃	521 581 0254	58- 74	AA	DD		C
VRS−CZ1JD202J	567 581 0695	51- 81	AA	DD		C
〃	567 581 0695	53- 83	AA	DD		C
VRS−CZ1JD203F	521 581 0131	52- 88	AA	DD		C
VRS−CZ1JD203J	567 581 0530	49- 77	AA	DD		C
〃	567 581 0530	50- 63	AA	DD		C
〃	567 581 0530	52- 89	AA	DD		C
VRS−CZ1JD220J	567 581 0532	52- 90	AA	DD		C
〃	567 581 0532	58- 75	AA	DD		C
VRS−CZ1JD221J	567 581 0533	51- 82	AA	DD		C
〃	567 581 0533	52- 91	AA	DD		C
VRS−CZ1JD222J	567 581 0534	49- 78	AA	DD		C
〃	567 581 0534	50-100	AA	DD		C
VRS−CZ1JD223J	521 581 0104	50- 64	AA	DD		C
VRS−CZ1JD242J	521 581 0219	52- 92	AA	DD		C
〃	521 581 0219	55- 32	AA	DD		C
VRS−CZ1JD243J	521 581 0190	50- 65	AA	DD		C
VRS−CZ1JD271J	572 581 2153	53- 84	AA	DD		C
〃	572 581 2153	55- 33	AA	DD		C
VRS−CZ1JD272J	567 581 0634	50- 66	AA	DD		C
〃	567 581 0634	51- 84	AA	DD		C
〃	567 581 0634	53- 85	AA	DD		C
VRS−CZ1JD273F	572 581 2080	49- 79	AA	DD		C
〃	572 581 2080	51- 85	AA	DD		C
VRS−CZ1JD273J	572 581 2081	49- 80	AA	DD		C
〃	572 581 2081	50- 67	AA	DD		C
VRS−CZ1JD302J	572 581 2072	49- 81	AA	DD		C
VRS−CZ1JD303J	572 581 2074	51- 86	AA	DD		C
〃	572 581 2074	52- 93	AA	DD		C
VRS−CZ1JD330J	521 581 0202	49- 82	AA	DD		C
〃	521 581 0202	51- 87	AA	DD		C
〃	521 581 0202	52- 94	AA	DD		C
〃	521 581 0202	58- 76	AA	DD		C
VRS−CZ1JD331J	567 581 0537	50-101	AA	DD		C
〃	567 581 0537	52- 95	AA	DD		C
VRS−CZ1JD332F	521 581 0193	52- 96	AA	DD		C
VRS−CZ1JD332J	521 581 0107	50- 68	AA	DD		C
〃	521 581 0107	58- 77	AA	DD		C
VRS−CZ1JD333J	521 581 0124	49- 83	AA	DD		C
〃	521 581 0124	53- 86	AA	DD		C
VRS−CZ1JD362J	521 581 0284	52- 97	AA	DD		C
VRS−CZ1JD363J	567 581 0616	49- 84	AA	DD		C
〃	567 581 0616	50-102	AA	DD		C
VRS−CZ1JD391J	521 581 0203	51- 88	AA	DD		C
VRS−CZ1JD393F	572 581 2082	49- 85	AA	DD		C
VRS−CZ1JD393J	521 581 0285	49- 86	AA	DD		C
〃	521 581 0285	50-103	AA	DD		C
VRS−CZ1JD470J	521 581 0170	52- 98	AA	DD		C
〃	521 581 0170	53- 87	AA	DD		C
〃	521 581 0170	58- 78	AA	DD		C
VRS−CZ1JD471J	567 581 0617	49- 87	AA	DD		C
〃	567 581 0617	52- 99	AA	DD		C
〃	567 581 0617	53- 88	AA	DD		C
VRS−CZ1JD472F	572 581 2062	52-100	AA	DD		C
VRS−CZ1JD472J	521 581 0088	49- 88	AA	DD		C
〃	521 581 0088	50-104	AA	DD		C
〃	521 581 0088	51- 89	AA	DD		C
〃	521 581 0088	52-101	AA	DD		C
〃	521 581 0088	53- 89	AA	DD		C
VRS−CZ1JD473J	521 581 0109	49- 89	AA	DD		C
〃	521 581 0109	51- 90	AA	DD		C
〃	521 581 0109	52-102	AA	DD		C
〃	521 581 0109	53- 90	AA	DD		C
〃	521 581 0109	55- 34	AA	DD		C
VRS−CZ1JD512J	578 581 0332	50- 70	AA	DD		C

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VRS−CZ1JD513J	572 581 2083	49- 90	AA	DD		C
〃	572 581 2083	50- 71	AA	DD		C
VRS−CZ1JD560J	572 581 2084	49- 91	AA	DD		C
VRS−CZ1JD621J	572 581 2064	50- 72	AA	DD		C
VRS−CZ1JD622J	578 581 0317	51- 91	AA	DD		C
VRS−CZ1JD680J	572 581 2065	53- 91	AA	DD		C
VRS−CZ1JD682J	521 581 0226	49- 92	AA	DD		C
VRS−CZ1JD683J	567 581 0543	49- 93	AA	DD		C
〃	567 581 0543	50- 105	AA	DD		C
VRS−CZ1JD753J	521 581 0198	49- 94	AA	DD		C
VRS−CZ1JD821J	572 581 2073	50- 106	AA	DD		C
〃	572 581 2073	51- 93	AA	DD		C
VRS−CZ1JD822J	572 581 2066	50- 107	AA	DD		C
VRS−CZ1JD823J	572 581 2067	58- 79	AA	DD		C
VRS−CZ1JD912J	572 581 2086	49- 95	AA	DD		C
VRS−CZ1JD913J	521 581 0199	49- 96	AA	DD		C
VRS−HT3DA1R0J	567 581 0073	55- 35	AB	DD		C
VRS−HT3DAR51J	572 581 2234	52- 105	AC	DD		C
VRS−RA3AA202J	572 581 1845	50- 74	AB	DD		C
VRS−RA3AA472J	572 581 1846	50- 108	AB	DD		C
VRS−TP2BD1R0J	585 581 0486	51- 94	AA	DD		C
VS2SA1576A／−1	521 576 0072	51- 96	AB	DJ		B
VS2SA1807−P−1	595 576 0368	50- 76	AE	DS		B
VS2SB1197／／−1	571 576 0349	52- 106	AC	DJ		B
VS2SB1198K／−1	572 576 0510	53- 92	AC	DJ		B
VS2SC1740SR−1	595 576 0048	54- 18	AB	DD		B
VS2SC2412K／−1	500 576 5005	51- 97	AB	DD		B
〃	500 576 5005	53- 93	AB	DD		B
VS2SC2412KS−1	507 576 5010	50- 77	AB	DD		B
VS2SC3415−P−1	595 576 0378	50- 78	AP	EQ		B
VS2SD1266A0−1	572 576 0505	50- 79	AF	DS		B
VS2SD1857A+−1	572 576 0604	56- 17	AB	DJ		B
VS2SD592A／／−1	572 576 0462	49- 100	AE	DJ		B
VS2SD592A−S−1	595 576 0471	50- 80	AK	DX		B
VS2SJ243／／／−1	521 576 0057	53- 94	AD	DJ		B
VSDTA114EUA−1	594 576 0224	49- 97	AC	DJ		B
〃	594 576 0224	52- 107	AC	DJ		B
VSDTA114YUA−1	596 576 0538	51- 98	AC	DJ		B
VSDTA144EUA−1	596 576 0539	51- 99	AC	DJ		B
VSDTC114EK／−1	595 576 0038	58- 80	AB	DD		B
VSDTC114EUA−1	594 576 0225	49- 98	AC	DJ		B
VSDTC114YK／−1	507 576 5005	58- 81	AC	ZZ		B
VSDTC114YUA−1	594 576 0248	51- 100	AB	DJ		B
〃	594 576 0248	52- 108	AB	DJ		B
〃	594 576 0248	53- 95	AB	DJ		B
VSDTC143ZKA−1	594 576 0231	50- 75	AC	DJ		B
VSDTC363EU+−1	572 576 0582	49- 99	AC	DJ		B
VVLLM065HB1−1	572 567 0010	4- 7	CB	TX		B
【X】						
XBBS230P08000	572 970 2308	22- 1	AA	DD		C
XBBSD30P04000	541 970 5027	20- 34	AA	DD		C
XBBSD30P06000	541 970 5028	20- 2	AA	DD		C
〃	541 970 5028	58- 82	AA	DD		C
XBBSD30P08000	571 970 0241	30- 27	AA	DD		C
XBBSD40P06000	572 970 0626	7- 3	AA	DD		C
XBBSD40P10000	577 970 0051	6- 16	AA	DD		C
XBBSD40P14000	572 970 1400	6- 12	AA	DD		C
XBBSE40P06000	572 970 1465	36- 31	AA	DD		C
XBPSD30P06KS0	541 970 0016	24- 15	AA	DD		C
〃	541 970 0016	3- 4	AA	DD		C
XBPSD30P08K00	541 970 0014	31- 30	AA	DD		C
XBPSD30P08KS0	541 970 1097	37- 21	AA	DD		C
XBPSD30P12XS0	572 970 2567	8- 4	AA	DD	N	C
XBPSD40P06K00	541 970 1038	33- 7	AA	DD		C
〃	541 970 1038	37- 9	AA	DD		C
XBPSD40P08K00	541 970 1106	31- 25	AA	DD		C
〃	541 970 1106	31- 54	AA	DD		C
XBPSD40P40XS0	572 970 1504	37- 10	AA	DD		C
XBPSE26P08000	572 970 2332	37- 42	AA	DD		C
XBPSE30P06000	541 970 0020	38- 4	AA	DD		C
XBTSE40P06000	572 970 0638	2- 24	AA	DD		C
XEBSD30P06000	578 970 0102	13- 28	AA	DD		C
〃	578 970 0102	19- 23	AA	DD		C
〃	578 970 0102	20- 7	AA	DD		C
〃	578 970 0102	24- 14	AA	DD		C
〃	578 970 0102	25- 38	AA	DD		C
XEBSD30P08000	578 970 0105	17- 26	AA	DD		C
〃	578 970 0105	18- 17	AA	DD		C
〃	578 970 0105	19- 30	AA	DD		C
〃	578 970 0105	20- 11	AA	DD		C
〃	578 970 0105	22- 17	AA	DD		C
XEBSD30P08000	578 970 0105	24- 4	AA	DD		C
〃	578 970 0105	25- 24	AA	DD		C
〃	578 970 0105	28- 39	AA	DD		C
〃	578 970 0105	29- 23	AA	DD		C
〃	578 970 0105	3- 13	AA	DD		C
〃	578 970 0105	31- 49	AA	DD		C
〃	578 970 0105	8- 2	AA	DD		C
XEBSD30P10000	578 970 0106	20- 36	AA	DD		C
〃	578 970 0106	32- 18	AA	DD		C
XEBSD30P12000	572 970 0571	24- 53	AA	DD		C
XEBSD30P16000	578 970 0107	17- 5	AA	DD		C
〃	578 970 0107	31- 3	AA	DD		C
XEBSD40P08000	572 970 0587	10- 21	AA	DD		C
〃	572 970 0587	11- 24	AA	DD		C
〃	572 970 0587	11- 31	AA	DD		C
〃	572 970 0587	20- 40	AA	DD		C
〃	572 970 0587	23- 7	AA	DD		C
〃	572 970 0587	27- 31	AA	DD		C
〃	572 970 0587	30- 31	AA	DD		C
〃	572 970 0587	32- 11	AA	DD		C
〃	572 970 0587	32- 19	AA	DD		C
〃	572 970 0587	33- 13	AA	DD		C
XEBSD40P10000	572 970 0588	22- 22	AA	DD		C
〃	572 970 0588	2- 27	AA	DD		C
XEBSD40P30000	572 970 1429	1- 28	AA	DD		C
XEBSD40P35000	572 970 2564	33- 5	AC	DD	N	C
XEBSE30P06000	578 970 0082	28- 13	AA	DD		C
〃	578 970 0082	29- 3	AA	DD		C
XEBSE30P08000	595 970 0121	1- 25	AA	DD		C
〃	595 970 0121	13- 13	AA	DD		C
〃	595 970 0121	16- 29	AA	DD		C
〃	595 970 0121	16- 5	AA	DD		C
XEBSE30P10000	595 970 0122	37- 8	AA	DD		C
XEBSE30P12000	595 970 0345	37- 7	AA	DD		C
XEBSE40P08000	572 970 1505	10- 2	AA	DD		C
〃	572 970 1505	1- 4	AA	DD		C
〃	572 970 1505	16- 14	AA	DD		C
〃	572 970 1505	17- 19	AA	DD		C
〃	572 970 1505	2- 25	AA	DD		C
〃	572 970 1505	28- 35	AA	DD		C
〃	572 970 1505	4- 2	AA	DD		C
XEBSE40P10000	572 970 0575	13- 2	AA	DD		C
〃	572 970 0575	14- 22	AA	DD		C
〃	572 970 0575	15- 13	AA	DD		C
XEPSD30P05000	578 970 0091	3- 11	AA	DD		C
XEPSD30P06X00	595 970 0301	13- 17	AA	DD		C
XEPSD30P08000	595 970 0137	4- 4	AA	DD		C
XEPSD30P08X00	595 970 0136	20- 51	AA	DD		C
XEPSD40P06000	578 970 0083	7- 28	AA	DD		C
XEPSD40P40000	572 970 2572	31- 43	AC	DD	N	C
XHBS230P06000	572 970 1971	24- 17	AA	DD		C
〃	572 970 1971	25- 40	AA	DD		C
XHBS230P08000	572 970 2002	24- 3	AA	DD		C
XHBS240P08000	572 970 2004	24- 47	AB	DD		C
XHBSD30P04000	578 970 0072	24- 29	AA	DD		C
〃	578 970 0072	25- 21	AA	DD		C
〃	578 970 0072	6- 5	AA	DD		C
XHBSD30P05000	595 970 0162	38- 10	AA	DD		C
XHBSD30P06000	541 970 1017	20- 42	AA	DD		C
〃	541 970 1017	21- 15	AA	DD		C
〃	541 970 1017	23- 3	AA	DD		C
〃	541 970 1017	24- 19	AA	DD		C
〃	541 970 1017	24- 46	AA	DD		C
〃	541 970 1017	25- 31	AA	DD		C
〃	541 970 1017	26- 4	AA	DD		C
〃	541 970 1017	28- 2	AA	DD		C
〃	541 970 1017	30- 18	AA	DD		C
〃	541 970 1017	38- 1	AA	DD		C
〃	541 970 1017	6- 20	AA	DD		C
〃	541 970 1017	6- 7	AA	DD		C
〃	541 970 1017	7- 18	AA	DD		C
XHBSD30P08000	578 970 0060	38- 15	AA	DD		C
XHBSD30P08KS0	572 970 2565	31- 55	AB	DD	N	C
〃	572 970 2565	6- 2	AB	DD	N	C
〃	572 970 2565	9- 4	AB	DD	N	C
XHBSD30P10000	572 970 0530	19- 28	AA	DD		C
〃	572 970 0530	24- 31	AA	DD		C
〃	572 970 0530	25- 22	AA	DD		C
XHBSD30P14000	572 970 1532	30- 2	AA	DD		C
XHBSD40P06000	578 970 0073	29- 20	AA	DD		C
〃	578 970 0073	7- 30	AA	DD		C

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			Ex.	Ja.		
XHBSE30P04000	595 970 0160	34- 20	AA	DD		C
XHBSE30P06000	578 970 0070	11- 3	AA	DD		C
〃	578 970 0070	1- 31	AA	DD		C
〃	578 970 0070	31- 18	AA	DD		C
〃	578 970 0070	34- 6	AA	DD		C
〃	578 970 0070	37- 13	AA	DD		C
〃	578 970 0070	38- 27	AA	DD		C
XHBSE30P08000	595 970 0163	11- 30	AA	DD		C
〃	595 970 0163	1- 35	AA	DD		C
〃	595 970 0163	20- 13	AA	DD		C
〃	595 970 0163	2- 22	AA	DD		C
〃	595 970 0163	29- 18	AA	DD		C
〃	595 970 0163	30- 19	AA	DD		C
〃	595 970 0163	31- 36	AA	DD		C
〃	595 970 0163	31- 9	AA	DD		C
〃	595 970 0163	34- 19	AA	DD		C
〃	595 970 0163	6- 6	AA	DD		C
XHBSE40P05000	572 970 2023	37- 32	AB	DD		C
XHBSE40P08000	572 970 0539	11- 29	AA	DD		C
〃	572 970 0539	11- 32	AA	DD		C
〃	572 970 0539	12- 26	AA	DD		C
〃	572 970 0539	1- 24	AA	DD		C
〃	572 970 0539	12- 8	AA	DD		C
〃	572 970 0539	13- 29	AA	DD		C
〃	572 970 0539	17- 45	AA	DD		C
〃	572 970 0539	2- 23	AA	DD		C
〃	572 970 0539	23- 28	AA	DD		C
〃	572 970 0539	26- 2	AA	DD		C
〃	572 970 0539	27- 3	AA	DD		C
〃	572 970 0539	28- 38	AA	DD		C
〃	572 970 0539	29- 15	AA	DD		C
〃	572 970 0539	30- 22	AA	DD		C
〃	572 970 0539	31- 19	AA	DD		C
〃	572 970 0539	33- 8	AA	DD		C
〃	572 970 0539	37- 46	AA	DD		C
〃	572 970 0539	6- 21	AA	DD		C
〃	572 970 0539	9- 1	AA	DD		C
XHBSE40P10000	595 970 0167	37- 47	AA	DD		C
XHBSE40P12000	572 970 1585	16- 17	AA	DD		C
XHSSE30P10000	594 970 0122	4- 15	AA	DD		C
XJBSD40P08000	572 970 1466	5- 10	AA	DD		C
XJBSD40P12000	572 970 0570	5- 2	AA	DD		C
XJBSE40P12000	572 970 2568	1- 2	AA	DD	N	C
XRESP30−06000	541 399 5002	3- 2	AA	DD		C
XRESP40−05000	572 399 0053	7- 34	AA	DD		C
XRESP40−06000	509 399 5001	11- 9	AA	DD		C
〃	509 399 5001	12- 12	AA	DD		C
〃	509 399 5001	14- 21	AA	DD		C
〃	509 399 5001	15- 20	AA	DD		C
〃	509 399 5001	19- 6	AA	DD		C
〃	509 399 5001	20- 20	AA	DD		C
〃	509 399 5001	21- 16	AA	DD		C
〃	509 399 5001	28- 6	AA	DD		C
XRESP50−06000	572 399 0063	11- 10	AA	DD		C
〃	572 399 0063	12- 15	AA	DD		C
〃	572 399 0063	14- 8	AA	DD		C
〃	572 399 0063	15- 21	AA	DD		C
〃	572 399 0063	17- 40	AA	DD		C
〃	572 399 0063	19- 7	AA	DD		C
〃	572 399 0063	20- 32	AA	DD		C
〃	572 399 0063	25- 3	AA	DD		C
〃	572 399 0063	27- 18	AA	DD		C
〃	572 399 0063	28- 19	AA	DD		C
XRESP70−08000	571 399 0027	10- 31	AA	DD		C
〃	571 399 0027	12- 11	AA	DD		C
〃	571 399 0027	15- 4	AA	DD		C
〃	571 399 0027	16- 21	AA	DD		C
〃	571 399 0027	17- 9	AA	DD		C
〃	571 399 0027	18- 3	AA	DD		C
〃	571 399 0027	21- 2	AA	DD		C
〃	571 399 0027	24- 35	AA	DD		C
〃	571 399 0027	26- 7	AA	DD		C
〃	571 399 0027	27- 6	AA	DD		C
〃	571 399 0027	7- 14	AA	DD		C
XRESP80−08000	571 399 0029	23- 18	AA	DD		C
XWHSD30−05080	500 990 0026	24- 28	AA	DD		C
〃	500 990 0026	25- 20	AA	DD		C
XWHSD30−08100	505 990 5001	21- 11	AA	DD		C
XWHSD40−08100	541 990 0043	30- 21	AA	DD		C
XWHSE30−05080	572 990 0529	37- 44	AA	DD		C

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			Ex.	Ja.		
【0】						
0CW023100FZWS	572 970 2545	42- 15	AB	DJ	N	C
〃	572 970 2545	47- 13	AB	DJ	N	C
0CW030040FZWS	572 970 0889	43- 45	AA	DD		C
〃	572 970 0889	47- 26	AA	DD		C
0CW030060FZBP	572 970 0946	45- 6	AA	DD		C
0CW030060FZSW	572 970 0951	41- 45	AA	DD		C
〃	572 970 0951	47- 28	AA	DD		C
0CW030060FZTP	572 970 0952	41- 24	AA	DD		C
〃	572 970 0952	43- 31	AA	DD		C
〃	572 970 0952	44- 25	AA	DD		C
〃	572 970 0952	47- 24	AA	DD		C
0CW030060FZWS	572 970 0953	39- 29	AA	DD		C
〃	572 970 0953	41- 56	AA	DD		C
〃	572 970 0953	45- 30	AA	DD		C
〃	572 970 0953	47- 19	AA	DD		C
0CW030080FNWS	572 970 1975	41- 12	AA	DJ		C
0CW030080FZBi	572 970 1276	43- 14	AA	DJ		C
0CW030080FZWS	572 970 0960	41- 28	AA	DD		C
〃	572 970 0960	42- 3	AA	DD		C
〃	572 970 0960	45- 38	AA	DD		C
0CW040060FNBB	572 970 1625	41- 29	AB	DJ		C
0CW040060FNBi	572 970 0988	45- 22	AA	DD		C
0CW040060FZBP	572 970 1645	44- 35	AB	DJ		C
0CW040060FZTP	572 970 1002	46- 7	AA	DD		C
〃	572 970 1002	47- 21	AA	DD		C
0CW040060FZWS	572 970 1003	44- 5	AA	DD		C
0CW040080FNBi	572 970 1209	39- 17	AA	DD		C
〃	572 970 1209	45- 13	AA	DD		C
0CW040080FZSW	572 970 1211	46- 3	AA	DD		C
0CW040080FZTP	572 970 1023	39- 27	AA	DD		C
〃	572 970 1023	42- 6	AA	DD		C
0CW040080FZWS	572 970 1024	42- 11	AA	DD		C
〃	572 970 1024	46- 1	AA	DD		C
0CW040100FNiT	572 970 2547	39- 3	AB	DJ	N	C
0CW040120FZiT	572 970 2548	47- 5	AB	DJ	N	C
0CW2078P023B/	572 970 1392	42- 31	AC	DJ		C
〃	572 970 1392	45- 21	AC	DJ		C
0CW2078P086B/	572 970 1216	43- 27	AB	DD		C
〃	572 970 1216	45- 29	AB	DD		C
0CW2078P652B/	572 203 1129	43- 37	AE	DS	N	C
0CW2129P188A/	572 208 0004	43- 32	AD	DJ	N	C
0CW2158P322A/	572 970 2549	39- 19	AC	DJ	N	C
0CW2164P142A/	572 214 1313	45- 2	AE	DS		C
0CW2164P330A/	572 970 1544	41- 14	AB	DJ		C
〃	572 970 1544	43- 12	AB	DJ		C
0CW2164P340A/	572 970 1224	42- 5	AA	DD		C
0CW2164P340A1	572 970 2569	47- 8	AB	DJ	N	C
0CW2166P034B/	572 317 0005	40- 37	AC	DJ		C
0CW2185P357A/	572 970 2015	39- 14	AA	DJ		C
〃	572 970 2015	41- 6	AA	DJ		C
〃	572 970 2015	43- 49	AA	DJ		C
〃	572 970 2015	44- 16	AA	DJ		C
〃	572 970 2015	47- 9	AA	DJ		C
0CW2198P305B/	572 273 0024	45- 35	AH	DX	N	C
0CW2198P374A/	572 990 0541	45- 14	AC	DJ	N	C
0CW2205P025A/	572 413 0782	45- 17	AD	DJ	N	C
0CW2205P147A/	572 258 4181	45- 16	AG	DX	N	C
0CW2205P351A/	572 287 2343	45- 19	AU	EZ	N	C
0CW2205P360A/	572 258 4077	45- 3	AD	DJ	N	C
0CW2214P044A/	572 345 3869	45- 15	AF	DS	N	C
0CW2214P116B/	572 200 1458	47- 1	AE	DJ	N	C
0CW2214P128B/	572 203 1130	39- 13	AK	DX	N	C
0CW2214P157B/	572 258 4078	45- 36	AK	DX	N	C
0CW2214P393A/	572 373 0143	47- 27	AG	DX	N	C
0CW2214P455C/	572 258 4079	41- 23	AE	DS	N	C
〃	572 258 4079	43- 13	AE	DS	N	C
0CW2214P520B/	572 214 2314	45- 28	AU	EZ	N	C
0CW2214P575A/	572 271 0835	45- 37	BR	LP	N	A
0CW2225P312A/	572 272 0807	40- 19	AD	DJ	N	C
0CW2240P835A/	572 568 0152	41- 27	AT	EZ	N	B
〃	572 568 0152	43- 25	AT	EZ	N	B
0CW2247P326A/	572 272 0808	41- 15	AF	DS	N	C
0CW2252P620C/	572 208 0005	40- 16	AD	DJ	N	C
〃	572 208 0005	41- 19	AD	DJ	N	C
〃	572 208 0005	43- 40	AD	DJ	N	C
0CW2254P058A/	572 248 1448	41- 43	AE	DJ	N	C
0CW2254P338A/	572 214 2315	41- 44	AC	DJ	N	C
0CW2254P494A/	572 970 2551	40- 2	AB	DJ	N	C
〃	572 970 2551	41- 22	AB	DJ	N	C
〃	572 970 2551	44- 19	AB	DJ	N	C

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			Ex.	Ja.		
0CW2260P002A／	572 281 2303	40- 43	AE	DJ	N	C
0CW2260P457／／	572 403 5314	44- 40	AP	EQ	N	C
0CW2260P458／／	572 403 5315	44- 41	AP	EQ	N	C
0CW2261P023E／	572 290 2877	40- 27	AD	DJ	N	C
0CW2261P055A／	572 284 0861	40- 25	AC	DJ	N	C
0CW2268K040B／	572 203 1131	41- 42	AG	DX	N	C
0CW2268K041A／	572 203 1132	41- 13	AG	DX	N	C
0CW2268K522A／	572 630 1110	44- 6	BL	HL	N	B
0CW2268P005A／	572 273 0025	44- 15	AD	DJ	N	C
0CW2268P056／／	572 240 0464	40- 11	AE	DJ	N	C
0CW2268P057／／	572 240 0465	40- 3	AE	DJ	N	C
0CW2268P059／／	572 284 0863	45- 18	AE	DJ	N	C
0CW2268P064／／	572 284 0864	42- 17	AG	DX	N	C
0CW2268P065／／	572 281 2304	42- 18	AG	DX	N	C
0CW2268P066／／	572 281 2305	42- 25	AH	DX	N	C
0CW2268P069／／	572 273 0026	46- 11	AD	DJ	N	C
0CW2268P071／／	572 273 0027	41- 8	AE	DJ	N	C
0CW2268P073／／	572 281 2306	41- 21	AD	DJ	N	C
0CW2268P076／／	572 217 0129	46- 12	AD	DJ	N	C
〃	572 217 0129	47- 37	AD	DJ	N	C
0CW2268P076B／	572 217 0130	40- 51	AD	DJ	N	C
0CW2268P078／／	572 284 0865	43- 17	AE	DS	N	C
0CW2268P083／／	572 284 0866	42- 4	AF	DS	N	C
0CW2268P084／／	572 203 1133	39- 5	AF	DS	N	C
0CW2268P085／／	572 281 2307	39- 10	AE	DJ	N	C
0CW2268P110／／	572 505 0013	45- 25	AH	DX	N	C
0CW2268P145／／	572 258 4080	47- 23	AG	DS	N	C
0CW2268P146／／	572 231 0584	45- 31	AP	EQ	N	C
0CW2268P170／／	572 258 4081	39- 11	AE	DS	N	C
0CW2268P217／／	572 290 2878	42- 21	AK	EB	N	C
0CW2268P303／／	572 287 2344	41- 48	BA	FX	N	C
0CW2268P335／／	572 258 4082	42- 33	AD	DJ	N	C
0CW2268P336／／	572 403 5196	41- 47	AD	DJ	N	C
0CW2268P344／／	572 316 0417	42- 24	AP	EQ	N	C
0CW2268P352／／	572 258 4083	43- 16	AD	DJ	N	C
0CW2268P354／／	572 258 4084	41- 16	AG	DX	N	C
0CW2268P360／／	572 258 4085	44- 3	AD	DJ	N	C
0CW2268P401／／	572 345 3870	41- 50	AG	DS	N	C
0CW2268P402／／	572 345 3871	46- 2	AK	DX	N	C
0CW2269K001／／	572 505 0015	47- 22	AH	DX	N	C
0CW2269K008／／	572 505 0016	47- 31	AK	EB	N	C
0CW2269K011／／	572 505 0017	42- 32	AH	DX	N	C
0CW2269K012／／	572 505 0018	46- 10	AG	DX	N	C
0CW2269K013／／	572 505 0019	42- 8	AU	EZ	N	C
0CW2269K016／／	572 505 0020	44- 33	AF	DS	N	C
0CW2269K025F／	572 246 0439	47- 29	BD	GJ	N	C
0CW2269K026G／	572 246 0440	47- 17	BD	GN	N	C
0CW2269K032／／	572 685 2170	39- 12	CB	TZ	N	E
0CW2269K042B／	572 400 0819	41- 37	AF	DX	N	C
0CW2269K047／／	572 110 1283	41- 9	AR	EQ	N	B
0CW2269K061／／	572 290 2879	40- 31	AL	EB	N	C
0CW2269K062B／	572 345 3982	40- 45	AU	EZ	N	E
0CW2269K064／／	572 226 0685	39- 501	BG	GT	N	D
0CW2269K066／／	572 685 2171	39- 28	BY	TF	N	D
0CW2269K094C／	572 214 2348	41- 3	AZ	FX	N	B
0CW2269K202／／	572 684 3985	47- 3	BZ	TF	N	E
0CW2269K207／／	572 521 0236	39- 25	AH	DX	N	E
0CW2269K221／／	572 542 2223	48- 3	AM	EG	N	C
0CW2269K222B／	572 542 2315	48- 9	AG	DX	N	C
0CW2269K223B／	572 542 2316	48- 2	AL	EB	N	C
0CW2269K224／／	572 542 2226	48- 11	AL	EB	N	C
0CW2269K225B／	572 542 2317	48- 1	AP	EQ	N	C
0CW2269K230／／	572 542 2228	48- 6	AK	EB	N	C
0CW2269K231／／	572 542 2229	48- 10	AK	DX	N	C
0CW2269K232／／	572 542 2230	39- 15	AY	FQ	N	B
0CW2269K234B／	572 542 2318	48- 7	AY	FQ	N	C
0CW2269K240／／	572 573 2818	47- 4	AX	FG	N	B
0CW2269K241B／	572 630 1132	42- 12	BL	HL	N	B
0CW2269K242B／	572 630 1133	46- 4	BM	HV	N	B
0CW2269K243／／		48- 8	BL	HL	N	C
0CW2269P001／／	572 210 1216	47- 2	BP	LP	N	D
0CW2269P002／／	572 110 1284	39- 23	AX	FQ	N	C
0CW2269P003／／	572 110 1285	39- 16	BA	FX	N	C
0CW2269P004／／	572 226 0686	39- 4	BB	GD	N	C
0CW2269P005／／	572 345 3873	44- 12	AP	EQ	N	C
0CW2269P006／／	572 110 1286	44- 8	AW	FG	N	C
0CW2269P007／／	572 110 1287	40- 13	AZ	FQ	N	D
0CW2269P009／／	572 110 1288	39- 18	AP	EQ	N	C
0CW2269P010／／	572 345 3874	41- 1	AS	EQ	N	C
0CW2269P011／／	572 345 3875	41- 2	AQ	EQ	N	C
0CW2269P012A／	572 345 3930	41- 55	AM	EG	N	C

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			Ex.	Ja.		
0CW2269P013／／	572 345 3931	43- 52	AQ	EQ	N	C
0CW2269P014C／	572 345 3983	43- 26	AW	FG	N	C
0CW2269P015／／	572 110 1289	43- 23	AG	DS	N	C
0CW2269P016／／	572 248 1449	43- 34	AD	DJ	N	C
0CW2269P017／／	572 248 1450	43- 10	AE	DJ	N	C
0CW2269P018／／	572 110 1290	44- 26	AQ	EQ	N	C
0CW2269P020／／	572 284 0867	47- 36	AD	DJ	N	C
0CW2269P022／／	572 214 2316	45- 24	AF	DS	N	C
0CW2269P025／／	572 214 2317	45- 5	AG	DS	N	C
0CW2269P026／／	572 214 2318	45- 23	AF	DS	N	C
0CW2269P029／／	572 214 2319	45- 4	AG	DS	N	C
0CW2269P038／／	572 214 2320	41- 46	AE	DS	N	C
0CW2269P052／／	572 230 0534	40- 18	AD	DJ	N	C
0CW2269P053／／	572 248 1451	40- 49	AE	DS	N	C
0CW2269P054D／	572 221 8356	40- 6	AE	DS	N	C
0CW2269P055／／	572 248 1452	42- 1	AE	DS	N	C
0CW2269P056／／	572 273 0028	42- 30	AD	DJ	N	C
0CW2269P057／／	572 284 0868	42- 23	AE	DS	N	C
0CW2269P059／／	572 248 1453	43- 39	AE	DJ	N	C
0CW2269P060／／	572 248 1454	44- 21	AE	DJ	N	C
0CW2269P061E／	572 240 0489	40- 30	AG	DX	N	C
0CW2269P062／／	572 240 0467	40- 36	AN	EG	N	C
0CW2269P065／／	572 110 1291	41- 4	AE	DS	N	C
0CW2269P066／／	572 214 2321	41- 7	AF	DS	N	C
0CW2269P068／／	572 345 3877	39- 1	AK	DX	N	C
0CW2269P069／／	572 345 3878	39- 6	AK	DX	N	C
0CW2269P071D／	572 110 1308	40- 50	AH	DX	N	C
0CW2269P077／／	572 248 1455	39- 7	AL	EB	N	C
0CW2269P099A／	572 284 0875	45- 9	AD	DJ	N	C
0CW2269P104／／	572 203 1134	44- 18	AF	DS	N	C
0CW2269P105／／	572 427 1661	43- 21	AH	DX	N	C
0CW2269P106／／	572 427 1662	43- 22	AF	DS	N	C
0CW2269P107／／	572 203 1135	43- 33	AK	DX	N	C
0CW2269P108／／	572 203 1136	47- 15	AH	DX	N	C
0CW2269P109／／	572 345 3879	41- 33	AT	EZ	N	C
0CW2269P110／／	572 203 1137	44- 24	AP	EQ	N	C
0CW2269P111／／	572 203 1138	44- 2	AN	EG	N	C
0CW2269P112／／	572 203 1139	44- 20	AF	DS	N	C
0CW2269P114／／	572 203 1140	46- 8	AQ	EQ	N	C
0CW2269P115／／	572 203 1141	41- 30	AL	EB	N	C
0CW2269P116／／	572 203 1142	47- 25	AH	DX	N	C
0CW2269P119／／	572 221 8106	45- 12	AQ	EQ	N	C
0CW2269P120／／	572 221 8107	45- 11	AP	EQ	N	C
0CW2269P123／／	572 203 1143	45- 20	AH	DX	N	C
0CW2269P128／／	572 258 4086	44- 14	AE	DS	N	C
0CW2269P132／／	572 203 1144	40- 12	AE	DS	N	C
0CW2269P133／／	572 203 1145	40- 1	AG	DX	N	C
0CW2269P139／／	572 203 1146	40- 8	AE	DS	N	C
0CW2269P142／／	572 203 1147	43- 44	AF	DS	N	C
0CW2269P145／／	572 231 0585	47- 40	AW	FG	N	C
0CW2269P146／／	572 231 0586	47- 14	AN	EG	N	C
0CW2269P147／／	572 248 1456	47- 18	AF	DS	N	C
0CW2269P149／／	572 203 1148	41- 31	AE	DJ	N	C
0CW2269P159／／	572 203 1149	47- 10	AF	DS	N	C
0CW2269P160A／	572 505 0021	44- 4	AG	DX	N	C
0CW2269P171／／	572 258 4087	42- 13	AL	EB	N	C
0CW2269P172／／	572 258 4088	47- 11	AK	DX	N	C
0CW2269P176／／	572 258 4090	45- 33	AE	DS	N	C
0CW2269P206／／	572 290 2880	40- 29	AQ	EQ	N	C
0CW2269P207／／	572 290 2881	43- 35	AF	DS	N	C
0CW2269P211／／	572 290 2882	44- 28	AG	DX	N	C
0CW2269P221／／	572 290 2883	47- 34	AH	DX	N	C
0CW2269P300／／	572 287 2345	40- 23	AN	EQ	N	B
0CW2269P301／／	572 287 2346	40- 14	AV	FG	N	B
0CW2269P303／／	572 277 0119	44- 17	AY	FQ	N	C
0CW2269P304／／	572 403 5197	43- 24	AD	DJ	N	C
0CW2269P305／／	572 310 0360	44- 7	AQ	EQ	N	C
0CW2269P306／／	572 310 0361	43- 2	AQ	EQ	N	C
0CW2269P307／／	572 403 5198	44- 32	AN	EQ	N	C
0CW2269P308／／	572 258 4092	43- 41	AD	DJ	N	C
0CW2269P309／／	572 258 4093	44- 27	AC	DJ	N	C
0CW2269P311／／	572 326 0498	41- 11	AG	DX	N	B
0CW2269P315／／	572 258 4094	41- 41	AD	DJ	N	C
0CW2269P316／／	572 316 0418	40- 28	AH	DX	N	C
0CW2269P318／／	572 316 0419	40- 42	AH	DX	N	C
0CW2269P320／／	572 326 0499	41- 10	AE	DS	N	B
0CW2269P324／／	572 400 0806	41- 25	AE	DS	N	C
0CW2269P326／／	572 287 2347	45- 27	AZ	FQ	N	C
0CW2269P327／／	572 287 2348	45- 1	BA	FX	N	C
0CW2269P331／／	572 310 0362	41- 39	AT	EZ	N	C
0CW2269P332／／	572 310 0363	41- 35	AR	EQ	N	C

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			Ex.	Ja.		
0CW2269P333//	572 287 2349	43- 19	BB	GD	N	B
0CW2269P334//	572 287 2350	41- 26	AY	FQ	N	B
0CW2269P335//	572 403 5199	44- 13	AD	DJ	N	C
0CW2269P336//	572 403 5200	43- 4	AG	DX	N	C
0CW2269P337//	572 403 5201	44- 31	AE	DJ	N	C
0CW2269P338//	572 403 5202	44- 11	AD	DJ	N	C
0CW2269P339//	572 326 0500	43- 47	AD	DJ	N	C
0CW2269P340//	572 403 5203	43- 28	AF	DS	N	C
0CW2269P341B/	572 403 5277	40- 21	AF	DS	N	C
0CW2269P343//	572 287 2351	45- 7	AZ	FQ	N	C
0CW2269P344D/	572 403 5316	40- 48	AG	DS	N	C
0CW2269P349B/	572 258 4191	41- 5	AD	DJ	N	C
0CW2269P350//	572 326 0501	40- 7	AD	DJ	N	C
0CW2269P351//	572 326 0502	44- 30	AC	DJ	N	C
0CW2269P354//	572 326 0503	43- 1	AL	EB	N	C
0CW2269P355A/	572 326 0516	40- 52	AH	DX	N	C
0CW2269P356A/	572 326 0517	40- 53	AF	DS	N	C
0CW2269P357//	572 287 2352	44- 29	AG	DX	N	C
0CW2269P358//	572 403 5206	43- 30	AD	DJ	N	C
0CW2269P359//	572 403 5207	43- 29	AN	EG	N	C
0CW2269P361//	572 399 0253	40- 15	AD	DJ	N	C
0CW2269P362//	572 326 0504	40- 5	AD	DJ	N	C
0CW2269P363//	572 258 4096	46- 5	AD	DJ	N	C
0CW2269P364//	572 326 0505	40- 10	AF	DS	N	C
0CW2269P365//	572 326 0506	39- 20	AV	FG	N	C
0CW2269P366//	572 326 0507	39- 21	AS	EQ	N	C
0CW2269P368//	572 326 0508	40- 4	AF	DS	N	C
〃	572 326 0508	44- 10	AF	DS	N	C
0CW2269P369//	572 326 0509	44- 9	AE	DS	N	C
0CW2269P381//	572 917 3675	39- 24	AL	EB	N	C
0CW2269P382//	572 326 0510	45- 26	AD	DJ	N	C
0CW2269P389//	572 326 0511	43- 50	AD	DJ	N	C
0CW2269P393A1	572 373 0146	47- 38	AG	DX	N	C
0CW2269P399A/	572 403 5266	44- 37	AE	DS	N	C
0CW2269P440//	572 647 0402	43- 51	AT	EZ	N	C
0CW2269P451A/	572 403 5267	41- 52	AF	DS	N	C
0CW2269P453A/	572 403 5268	41- 53	AE	DJ	N	C
0CW2269P455A/	572 403 5269	41- 54	AQ	EQ	N	C
0CW2269P459//	572 403 5317	40- 60	AG	DS	N	C
0CW2269P460//	572 403 5318	40- 61	AE	DS	N	C
0CW3085P334A/	572 970 2552	43- 20	AC	DJ	N	C
〃	572 970 2552	44- 34	AC	DJ	N	C
0CW4048P300A/	572 970 2553	44- 1	AC	DJ	N	C
0CW4054P143B1	572 970 2577	47- 16	AB	DJ	N	C
0CW4054P220D/	572 970 1731	39- 26	AB	DJ		C
〃	572 970 1731	46- 9	AB	DJ		C
0CW4062Q304B/	572 970 2555	43- 11	AC	DJ	N	C
0CW660580////	572 980 0091	39- 9	AA	DD		C
0CWE120001648	572 530 0715	42- 14	AP	EQ	N	B
〃	572 530 0715	47- 12	AP	EQ	N	B
0CWE314000619	572 568 0058	39- 8	AH	DX		B
〃	572 568 0058	41- 32	AH	DX		B
〃	572 568 0058	42- 2	AH	DX		B
〃	572 568 0058	43- 9	AH	DX		B
0CWE450000070	572 201 0104	47- 6	AB	DJ		C
0CWE450001128	572 201 0169	43- 8	AC	DJ		C
0CWE450001139	572 399 0252	43- 6	AC	DJ	N	C
〃	572 399 0252	47- 7	AC	DJ	N	C
0CWER040SKP//	572 399 0086	40- 33	AB	DD		C
〃	572 399 0086	44- 22	AB	DD		C
0CWER050SKP//	572 399 0089	40- 20	AA	DD		C
〃	572 399 0089	41- 17	AA	DD		C
〃	572 399 0089	42- 20	AA	DD		C
〃	572 399 0089	43- 18	AA	DD		C
〃	572 399 0089	46- 13	AA	DD		C
〃	572 399 0089	47- 32	AA	DD		C
0CWER070SKP//	572 399 0101	41- 20	AA	DD		C
〃	572 399 0101	42- 19	AA	DD		C
〃	572 399 0101	43- 38	AA	DD		C
〃	572 399 0101	45- 10	AA	DD		C
0CWHP02010SCH	572 218 0634	40- 26	AC	DJ	N	C
〃	572 218 0634	42- 26	AC	DJ	N	C
0CWNSBLT00056	572 271 0623	40- 24	AN	EG		C
0CWNSBLT00277	572 271 0834	42- 22	AP	EQ	N	C
0CWNSBLT00278	572 271 0862	44- 36	AL	EB	N	C
0CWNSBLT00281	572 271 0863	47- 41	AQ	EQ	N	C
0CWNSBLT00282	572 271 0864	47- 35	AR	EQ	N	C
0CWNSBRG00016	572 272 0626	42- 9	AT	EZ		C
〃	572 272 0626	47- 33	AT	EZ		C
0CWNSBRG00019	572 272 0806	41- 18	AQ	EQ	N	C
〃	572 272 0806	43- 15	AQ	EQ	N	C
0CWNSBRG00019	572 272 0806	45- 8	AQ	EQ	N	C
0CWPW080025//	572 256 0185	41- 40	AB	DJ	N	C
0FT23040224//	572 200 1334	57- 1	AD	DJ		C
0FT23042251//	572 397 0182	57- 2	AP	EQ		C
0FT23075095//	572 512 0394	57- 3	AP	EQ		C
0FT23095657//	572 576 0569	57- 96	AF	DS		B
〃	572 576 0569	57- 97	AF	DS		B
〃	572 576 0569	57- 98	AF	DS		B
〃	572 576 0569	57- 99	AF	DS		B
0FT23124819//	572 594 0890	57- 100	AK	DX		C
0FT23124827//	572 594 0891	57- 101	AF	DS		C
0FT23194310//	572 575 0159	57- 4	AU	EZ		B
0FT23204782//	572 594 0893	57- 102	AP	EQ		C
0FT23204790//	572 594 0894	57- 103	AP	EQ		C
〃	572 594 0894	57- 104	AP	EQ		C
0FT23241823//	572 590 0053	57- 105	AP	EQ		B
0FT23259382//	572 594 0895	57- 106	AP	EQ		C
0FT23259420//	572 594 0896	57- 107	AP	EQ		C
0FT23259447//	572 594 0897	57- 108	AK	DX		C
0FT23259498//	572 594 0898	57- 109	AK	DX		C
〃	572 594 0898	57- 110	AK	DX		C
〃	572 594 0898	57- 111	AK	DX		C
0FT23287629//	572 576 0570	57- 112	AK	DX		B
0FT23287637//	572 576 0571	57- 113	AP	EQ		B
0FT23287696//	572 576 0580	57- 114	AP	EQ		B
0FT23287823//	572 594 0900	57- 115	AK	DX		C
0FT23314081//	572 573 2389	57- 5	AU	EZ		B
0FT23319431//	572 570 0525	57- 116	AF	DS		B
〃	572 570 0525	57- 117	AF	DS		B
0FT23326101//	572 594 0901	57- 118	AU	EZ		C
0FT23329089//	572 594 0902	57- 119	AK	DX		C
〃	572 594 0902	57- 120	AK	DX		C
0FT23379450//	572 573 2390	57- 121	AU	EZ		B
〃	572 573 2390	57- 122	AU	EZ		B
0FT23394395//	572 594 0903	57- 123	AU	EZ		C
0FT23414892//	572 581 1976	57- 124	AF	DS		C
0FT23415341//	572 581 1979	57- 125	AF	DS		C
0FT23415430//	572 581 1982	57- 126	AF	DS		C
0FT23415570//	572 581 1984	57- 127	AF	DS		C
〃	572 581 1984	57- 128	AF	DS		C
〃	572 581 1984	57- 129	AF	DS		C
0FT23415600//	572 581 1985	57- 130	AF	DS		C
0FT23415643//	572 581 1988	57- 131	AF	DS		C
0FT23415651//	572 581 1989	57- 132	AF	DS		C
0FT23415716//	572 581 1992	57- 133	AF	DS		C
0FT23415740//	572 581 1994	57- 134	AF	DS		C
0FT23415899//	572 581 1996	57- 135	AF	DS		C
0FT23423816//	572 990 0439	57- 7	AC	DJ		C
0FT23429199//	572 570 0526	57- 136	AK	DX		B
0FT23432963//	572 990 0440	57- 8	AC	DJ		C
0FT23462226//	572 581 1999	57- 33	AD	DJ		C
〃	572 581 1999	57- 34	AD	DJ		C
0FT23462234//	572 581 2001	57- 35	AD	DJ		C
〃	572 581 2001	57- 36	AD	DJ		C
〃	572 581 2001	57- 37	AD	DJ		C
〃	572 581 2001	57- 38	AD	DJ		C
0FT23462250//	572 581 2002	57- 39	AD	DJ		C
〃	572 581 2002	57- 40	AD	DJ		C
〃	572 581 2002	57- 41	AD	DJ		C
〃	572 581 2002	57- 42	AD	DJ		C
〃	572 581 2002	57- 43	AD	DJ		C
0FT23462269//	572 581 2003	57- 44	AD	DJ		C
〃	572 581 2003	57- 45	AD	DJ		C
〃	572 581 2003	57- 46	AD	DJ		C
0FT23462293//	572 581 2004	57- 47	AD	DJ		C
0FT23463362//	572 581 2005	57- 48	AD	DJ		C
0FT23484661//	572 581 2060	57- 137	AD	DJ		C
0FT23485706//	572 512 0396	57- 9	AK	DX		C
0FT23486796//	572 594 0904	57- 138	AK	DX		C
0FT23486850//	572 594 0905	57- 139	AK	DX		C
〃	572 594 0905	57- 140	AK	DX		C
0FT23536106//	572 581 2006	57- 49	AD	DJ		C
〃	572 581 2006	57- 50	AD	DJ		C
〃	572 581 2006	57- 51	AD	DJ		C
0FT23538850//	572 581 2009	57- 52	AD	DJ		C
〃	572 581 2009	57- 53	AD	DJ		C
0FT23538885//	572 581 2010	57- 54	AD	DJ		C
0FT23538915//	572 581 2011	57- 55	AD	DJ		C
0FT23538923//	572 581 2012	57- 56	AD	DJ		C
0FT23538974//	572 581 2013	57- 57	AD	DJ		C
0FT23538982//	572 581 2014	57- 58	AD	DJ		C

PARTS CODE	JAPAN ONLY ORDER CODE	NO.	PRICE R.		NEW	P/R
			Ex.	Ja.		
0FT23541509//	572 571 0254	57- 59	AK	DX		B
0FT23543641//	572 516 0055	57-141	AK	DX		C
0FT23546047//	572 581 2015	57- 60	AD	DJ		C
〃	572 581 2015	57- 61	AD	DJ		C
0FT23549119//	572 593 0340	57- 62	AF	DS		C
〃	572 593 0340	57- 63	AF	DS		C
〃	572 593 0340	57- 64	AF	DS		C
〃	572 593 0340	57- 65	AF	DS		C
〃	572 593 0340	57- 66	AF	DS		C
〃	572 593 0340	57- 67	AF	DS		C
〃	572 593 0340	57- 68	AF	DS		C
0FT23551148//	572 571 0255	57- 69	AK	DX		B
0FT23551377//	572 570 0527	57- 70	AK	DX		B
0FT23557111//	572 581 2016	57- 71	AD	DJ		C
0FT23559467//	572 576 0572	57- 10	AR	EQ		B
0FT23562328//	572 580 0996	57- 11	AD	DJ		C
0FT23562379//	572 580 1233	57- 12	AD	DJ		C
〃	572 580 1233	57- 13	AD	DJ		C
0FT23562549//	572 581 2017	57- 14	AD	DJ		C
0FT23562700//	572 581 2018	57- 15	AD	DJ		C
〃	572 581 2018	57- 16	AD	DJ		C
0FT23562727//	572 581 2019	57- 17	AD	DJ		C
0FT23562816//	572 580 1235	57- 18	AC	DJ		C
〃	572 580 1235	57- 19	AC	DJ		C
0FT23562859//	572 580 1236	57- 20	AD	DJ		C
0FT23563103//	572 581 2021	57- 21	AD	DJ		C
〃	572 581 2021	57- 22	AD	DJ		C
0FT23563324//	572 580 1020	57- 23	AC	DJ		C
〃	572 580 1020	57- 24	AC	DJ		C
0FT23565505//	572 581 2025	57- 72	AD	DJ		C
0FT23578194//	572 581 2026	57- 73	AD	DJ		C
〃	572 581 2026	57- 74	AD	DJ		C
0FT23581330//	572 593 0341	57- 75	AD	DJ		C
〃	572 593 0341	57- 76	AD	DJ		C
〃	572 593 0341	57- 77	AD	DJ		C
0FT23583309//	572 571 0256	57- 78	AG	DX		B
0FT23598470//	572 571 0257	57- 79	AG	DX		B
0FT23598977//	572 512 0397	57- 25	AK	DX		C
0FT23605507//	572 570 0528	57-142	AK	DX		B
〃	572 570 0528	57-143	AK	DX		B
〃	572 570 0528	57-144	AK	DX		B
〃	572 570 0528	57-145	AK	DX		B
0FT23610810//	572 570 0529	57-146	AK	DX		B
〃	572 570 0529	57-147	AK	DX		B
〃	572 570 0529	57-148	AK	DX		B
〃	572 570 0529	57-149	AK	DX		B
〃	572 570 0529	57-150	AK	DX		B
〃	572 570 0529	57-151	AK	DX		B
〃	572 570 0529	57-152	AK	DX		B
〃	572 570 0529	57-153	AK	DX		B
0FT23611329//	572 594 0643	57- 26	AK	DX		C
0FT23624285//	572 570 0540	57-154	AK	DX		B
0FT23624293//	572 581 2027	57- 80	AD	DJ		C
0FT23625591//	572 581 2028	57- 81	AD	DJ		C
〃	572 581 2028	57- 82	AD	DJ		C
0FT23642925//	572 614 0183	57- 27	AK	DX		B
0FT23644634//	572 670 0175	57- 28	AK	DX		B
0FT23663914//	572 581 2029	57- 83	AD	DJ		C
0FT23665429//	572 573 2391	57- 29	AU	EZ		B
0FT23671666//	572 573 2392	57- 30	AU	EZ		B
0FT23690482//	572 580 1255	57-155	AD	DJ		C
0FT23697355//	572 403 4281	57- 31	AU	EZ		B
0FT23736903//	572 570 0530	57- 32	AX	FG		B
0FT23752267//	572 580 1259	57-156	AD	DJ		C
〃	572 580 1259	57-157	AD	DJ		C
0FT33005385//	572 581 2035	57-158	AD	DJ		C
0FT33008015//	572 570 0531	57-168	AW	FG		B
0FT33035349//	572 570 0399	57-169	AK	DX		B
0FT33036442//	572 580 1262	57-159	AD	DJ		C
0FT33055277//	572 532 0211	57-160	AK	DX		C
0FT33085427//	572 576 0574	57-170	AU	EZ		B
0FT33122675//	572 570 0532	57- 84	AF	DS		B
〃	572 570 0532	57- 85	AF	DS		B
〃	572 570 0532	57- 86	AF	DS		B
〃	572 570 0532	57- 87	AF	DS		B
〃	572 570 0532	57- 88	AF	DS		B
〃	572 570 0532	57- 89	AF	DS		B
〃	572 570 0532	57- 90	AF	DS		B
〃	572 570 0532	57- 91	AF	DS		B
〃	572 570 0532	57- 92	AF	DS		B
〃	572 570 0532	57- 93	AF	DS		B

PARTS CODE	JAPAN ONLY ORDER CODE	NO.	PRICE R.		NEW	P/R
			Ex.	Ja.		
0FT33122675//	572 570 0532	57- 94	AF	DS		B
0FT33146922//	572 515 0507	57-171	AK	DX		A
0FT33173377//	572 614 0282	57-172	BA	FX		B
0FT33186711//	572 576 0575	57-161	AR	EQ		B
0FT33189184//	572 594 0911	57- 95	AD	DJ		C
0FT33197209//	572 574 0323	57-173	BA	FX		B
0FT33199031//	572 576 0576	57-174	AW	FG		B
0FT33213581//	572 397 0183	57-175	AP	EQ		C
0FT33213786//	572 593 0346	57-162	AK	DX		C
〃	572 593 0346	57-163	AK	DX		C
0FT33262132//	572 568 0129	57-176	AP	EQ		B
〃	572 568 0129	57-177	AP	EQ		B
0FT33293976//	572 594 0784	57-178	AF	DS		C
0FT33295049//	572 593 0347	57-164	AK	DX		C
0FT33331673//	572 573 2393	57-179	AZ	FQ		B
0FT33388799//	572 593 0348	57-165	AP	EQ		C
0FT33441622//	572 596 0393	57-180	AL	EB		C
0FT33441630//	572 593 0351	57-181	AP	EQ		C
0FT33478232//	572 594 0912	57-182	AZ	FQ		C
0FT33509685//	572 512 0400	57-183	AP	EQ		C
0FT33529090//	572 532 0212	57-184	AP	EQ		C
〃	572 532 0212	57-185	AP	EQ		C
〃	572 532 0212	57-186	AP	EQ		C
〃	572 532 0212	57-187	AP	EQ		C
0FT33552203//	572 581 2037	57-166	AD	DJ		C
0FT33568266//	572 637 0158	57-188	BA	FX		B
0FT33570120//	572 581 2038	57-167	AD	DJ		C
0FT33570163//	572 581 2039	57-189	AF	DS		C
〃	572 581 2039	57-190	AF	DS		C
0FT33603762//	572 573 2394	57-191	BB	GD		B
0FT33603789//	572 660 0436	57-192	BF	GN		B
0FT33638361//	572 637 0159	57-193	BC	GJ		B
〃	572 637 0159	57-194	BC	GJ		B
0FT35863281//	572 660 0437	57-195	BF	GN		B

注意

- 電池を正しく交換しないと爆発を起こす危険がある。
- 機器製造者が指定したものと同一型名のもの、又は、その同等の電池とのみ交換すること。
- 使用済みの電池は、製造者の指示に従って処分すること。

CAUTION FOR BATTERY REPLACEMENT

(Danish) ADVARSEL !
Lithiumbatteri - Eksplosionsfare ved fejlagtig håndtering.
Udskiftning må kun ske med batteri
af samme fabrikat og type.
Levér det brugte batteri tilbage til leverandoren.

(English) Caution !
Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type
recommended by the manufacturer.
Dispose of used batteries according to manufacturer's instructions.

(Finnish) VAROITUS
Paristo voi räjähtää,jos se on virheellisesti asennettu.
Vaihda paristo ainoastaan laitevalmistajan suosittelemaan
tyyppiin. Hävitä käytetty paristo valmistajan ohjeiden
mukaisesti.

(French) ATTENTION
Il y a danger d'explosion s'il y a remplacement incorrect
de la batterie. Remplacer uniquement avec une batterie du
même type on d'un type équivalent recommandé par
le constructeur.
Mettre au rébut les batteries usagées conformément aux
instructions du fabricant.

(Swedish) VARNING
Explosionsfara vid felaktigt batteribyte.
Använd samma batterityp eller en ekvivalent
typ som rekornmenderas av apparattillverkaren.
Kassera använt batteri enligt fabrikantens
Instruktion.

(German) Achtung
Explosionsgefahr bei Verwendung inkorrekter Batterien.
Als Ersatzbatterien dürfen nur Batterien vom gleichen Typ oder
vom Hersteller empfohlene Batterien verwendet werden.
Entsorgung der gebrauchten Batterien nur nach den vom
Hersteller angegebenen Anwerisugen.

CAUTION FOR BATTERY DISPOSAL

(For USA,CANADA)
Contains lithium-ion battery. Must be disposed of properly.
Remove the battery from the product and contact
federal or state environmental
agencies for information on recycling and disposal options.

SHARP

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